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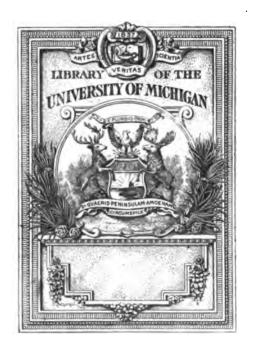
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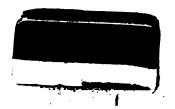
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THIRTY-FIFTH ANNUAL REPORT

OF THE

BOARD OF HEALTH

OF THE

STATE OF NEW JERSEY

1911

AND

Report of the Bureau of Vital Statistics



TRENTON, N. J.

STATE GAZETTE PUBLISHING Co., PRINTERS.

1912.

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STATE GAZETTE PUBLISHING Co., PRINTERS.
1912.

Letter of Transmittal.

TRENTON, N. J., October 31st, 1911.

To His Excellency Woodrow Wilson, Governor of New Jersey:
Sim—I have the honor to transmit herewith the Thirty-fifth
Annual Report of the Board of Health of the State of New Jersey,
and the Report of the Bureau of Vital Statistics.

Very respectfully,

BRUCE S KEATOR,

Secretary.

(iii)

Board of Health of the State of New Jersey.

MEMBERS.

JOHN H. CAPSTICK, President	Montville.
GEORGE P. OLCOTT, C.E., Vice President	East Orange.
BRUCE S. KEATOR, M.D., Secretary	Asbury Park.
WILLIAM H. CHEW	Salem.
HERBERT W. JOHNSON	Haddonfield.
RICHARD C. NEWTON, M.D	Montclair.

The offices of the Board are in the State House, Trenton.

ORGANIZATION OF THE STATE DEPARTMENT OF HEALTH.

With the organization of the State Board of Health in 1908, five working divisions were established, viz., Division of Vital Statistics, Division of Medical and Sanitary Inspection, Division of Food and Drugs, Division of Creameries and Dairies and Division of Sewerage and Water Supplies.

The complete personnel of the department is as follows:

Bruce S. Keator, M.D., Secretary and Executive Officer. A. Clark Hunt, M.D., Assistant Secretary. Charles J. Merrell, Chief Clerk.

DIVISION OF VITAL STATISTICS.

David S. South, State Registrar and Chief. Walter R. Scott, Assistant to the Chief. Albert J. Shull, Clerk.

Mrs E. C. Closson, Clerk.

Miss K. M. Vare, Clerk and Tabulator.

Miss E. S. Merrell, Clerk and Stenographer.

DIVISION OF MEDICAL AND SANITARY INSPECTION.

A. Clark Hunt, M.D., Chief.
David C. Bowen, Sanitary Inspector.
William H. Marcussen, Sanitary Inspector.
Millard Knowlton, M.D., Tuberculosis Inspector.
Norval P. Closson, Clerk and Stenographer.
S. Elizabeth Wilkes, Clerk and Stenographer.
Edmund R. Outcalt, Clerk and Stenographer.

DIVISION OF FOOD AND DRUGS.

R. B. Fitz-Randolph, Chief of Division and Director of the State Laboratory of Hygiene.

William G. Tice, Assistant to the Chief.

John V. Mulcahy, Bacteriologist.

Henry W. Denny, Chemist.

Christopher L. Devitt, Chemist.

William S. Townsend, Inspector.

Louis Tremallo, Inspector.

Isaac H. Shaw, Slaughter-house Inspector.

Walter W. Scofield, Jr., Assistant.

Frank Yates, Clerk and Stenographer.

Anita A. Stephan, Clerk and Stenographer.

Joseph A. Moran, Laboratory Assistant.

Antoinette Foy, Laboratory Assistant.

DIVISION OF CREAMERIES AND DAIRIES.

George W. McGuire, Chief.

A. I. Goehrig, Assistant to the Chief.

S. S. Vandruff, Inspector.

Frederick C. Robertson, M.D., Inspector.

William J. Willsey, Inspector.

Miss Florence E. Derbyshire, Clerk.

DIVISION OF SEWERAGE AND WATER SUPPLIES.

Francis E. Daniels, Chief.

George T. Palmer, Assistant.

Chester G. Wigley, Assistant Sanitary Engineer.

Howard B. Warren, Chemist.

Harry P. Letton, Field Assistant.

Calvin N. Harrub, Field Assistant.

Clarence W. Sparmaker, Inspector.

Fred. B. Worman, Inspector.

Charles B. Robinson, Inspector.

Louise MacMillan, Clerk and Stenographer.

Charles A. Macdonald, Jr., Clerk and Stenographer.

Table of Contents.

Thirty-Fifth Annual Report of the Board of Health of the State of New Jersey, 1911.

	PAG
Secretary's letter of transmittal	
Secretary's report	
Division of Medical and Sanitary Inspection	
Division of Sewerage and Water Supplies	
Division of Creameries and Dairies	
The prohibition of the use of the common drinking cu	p
Opthalmia neonatorum	
Cold storage	
Supervision over Oysters, Clams and Shellfish	
Food law penalties	
Ice cream	
Milk standard	
Reporting of contagious diseases	
Communicable diseases on dairy premises	
Marriage licenses by deputy registrars	
Marriages without consent of parents	
Deaths in hospitals	
Licensing of plumbers	
Annual Conference of State and Local Boards of Hea	
Maritime quarantine	
Contagious diseases of animals	
Examination of health officers and sanitary inspectors	
Vital statistics	
Population	
Comparative deaths of white and colored inhabitants	
Births	
Marriages	
Deaths	
Consumption	
Pneumonia	
Deaths among children	
Diphtheria	(
Typhoid fever	
Whooping cough	
Scarlet fever	
Measles	
Malarial fever	
Small-pox	
Cancer	
Suicide	
Bright's disease	
Tright o discuse	• • • • • • • • • • • • • • • • • • • •

CONTENTS.

	٠	٠	٠
W	1	1	1

P	AGE.
Report of Chief of Division of Medical and Sanitary Inspection	85
Report of Chief of Division of Creameries and Dairies	147
Report of Director of State Laboratory of Hygiene	197
Report of Chief of Division of Food and Drugs	219
Report of Chief of Division of Sewerage and Water Supplies	297
Report of the Bureau of Vital Statistics	388
List of Infectious Diseases Reported During Year Ending June 30, 1911	584
List of Licensed Health Officers and Sanitary Inspectors	591
List of Sanitary Districts	597
List of Physicians	629

Report of the Secretary.

BRUCE S. KEATOR, M.D.

To the Board of Health of the State of New Jersey:

Gentlemen—Herewith is presented the report of the Board for the year ending October 31st, 1911. The wisdom of the Board in subdividing the work and placing competent men as heads of the divisions has resulted in increased efficiency, and no year in the history of the Board since its organization has seen more faithful application to the service or been marked by greater advances in the administration of health laws.

As the Secretary of the Board is the Superintendent of the Bureau of Vital Statistics, the report of statistical work for the year ending December 31st, 1910, is herewith submitted. In the arrangement of this report a departure has been made from that of former reports in placing the records of vital statistics after the reports of the various departments, as we believe this arrangement is more logical.

A summary of the work performed by each division is presented, together with a record of the action of the Board in relation to the care of contagious diseases of animals, examination of health officers, licensing of slaughter houses, control of the oyster industry, and the enforcement of the many and various laws, the execution of which is placed in the hands of the Board.

Following the plan of former years a summary of the laws passed during the legislative session of 1911 is presented. Our purpose is to place before the readers of the report a concise statement of the provisions of new laws and any supplemental changes in already existing laws. The new laws and amendments to old laws are printed by the State Health Department and furnished to local boards of health throughout the State. As the annual report of the Board is widely distributed it is thought that it will be of interest to others to follow the efforts of this Board to

secure such legislation as will tend to better protect the lives and health of the citizens of the State.

The desire of the Board has been to be more thorough in its methods and to accomplish results. An examination of the record for the year, as detailed in this report, will, I believe, give some proof of the realization of the desire.

DIVISION OF MEDICAL AND SANITARY INSPECTION.

A review of the work performed by this division shows that increased attention has been given to perfecting the organization of local boards of health and directing them in the performance of their official duties. During the year ending October 31st, 1911, representatives of the division have attended twenty-eight meetings of local boards of health in session, and 181 conferences or meetings with local board of health officials. These meetings or conferences were attended either upon special request by the local board of health or arranged for by appointments made by the State Board of Health. At these meetings all subjects relating to local sanitary administration were discussed and valuable information given to the members of the local boards. This work is a continuance of that of the previous year and beneficial results are already noticeable and highly encouraging.

In 1909 reports of contagious diseases were being received from 191 sanitary districts. In 1910, 327 districts; in 1911, from 378 districts, making an increase of 58.4 per cent. in the number of districts reporting in 1911 over those reporting in 1909. are in the State of New Jersey 476 sanitary districts, of which, in the year 1911, 378 were reporting communicable diseases, leaving 98 districts from which no reports were received. Investigation shows that in 56 of these districts no cases of contagious disease had occurred, so that at the present time reports are received from 91.2 per cent. of the sanitary districts in the State in which notifiable diseases occurred. The law which was passed during the legislative session of 1911, fixing the responsibility for reporting cases of communicable diseases to the State Board of Health by local boards of health, and authorizing the payment of ten cents for each case so reported, will undoubtedly result in a short time in the receiving of complete reports of communicable diseases from

every sanitary district in the State. During the year 1909 a total of 10,560 cases of notifiable diseases were reported to the State Board of Health. In 1910 a total of 14,322 cases were reported, while in 1911 a total of 14,913 cases were reported. During these years there were no unusual epidemics, and the increase of 4,353 cases is encouraging.

Last year the sanitary inspection of the public school buildings of the State was undertaken. While the working force of the division is such that it was only possible to cover a few of the buildings the inspections which have already been made indicate the necessity for continuing this line of inquiry. The full report of each inspection, together with a statement of the defects noted and recommendations for the improvement of unsanitary conditions is forwarded to the State Commissioner of Education, who in turn notifies the local boards of education of the results of the inspections and makes the request that immediate steps be taken to carry out the recommendations contained in the report. plan has been followed in each instance, and the improvement in the sanitary conditions at the schools which have been inspected indicates that the schools of the State should be periodically inspected by a trained inspector, in order that an exact and scientific report of the actual sanitary conditions of the public school buildings of our State may be a matter of record. There are 2,034 public school buildings in New Jersey, and to properly inspect this number of buildings at sufficiently frequent intervals at least two inspectors should be continuously employed.

In 1911 an appropriation of ten thousand dollars was allowed to the State Board of Health to carry on an anti-tuberculosis campaign. The supervision of this work is in charge of the Division of Medical and Sanitary Inspection. A special tuberculosis inspector has passed the civil service examination and is preparing to carry on an active campaign. Plans are being formed to secure a complete and interesting exhibit and to prosecute the educational campaign against tuberculosis vigorously.

The investigation of cases of contagious diseases occurring on dairy premises has been continued during the year, and the report of the division shows that these diseases have occurred upon 80 premises, and that 32 cases of diphtheria, 30 of scarlet fever, 19 of typhoid fever and 7 of tuberculosis have been investigated. The methods which are adopted in the handling of these cases is

given in detail in the report of the division, and it is apparent that every effort is made to protect the consumer of milk from the danger of infection occurring upon dairy premises and also to safeguard the interests of the dairyman. The act by which physicians in attendance upon cases of contagious diseases occurring upon dairy premises are required to report directly to the State Board of Health, was so amended that now not only is the physician required to report these cases, but also to make report of any cases of contagious diseases occurring in the person or families of persons employed upon dairy premises whether resident upon the premises or not. This amendment to the act will tend to increase the protection against the contraction of contagious diseases through milk.

Under the provisions of chapter 292, laws of 1908, the State Board of Health is required to initiate and prosecute measures to prevent epidemics of contagious diseases occurring in State institu-This work has been under the supervision of the Division of Medical and Sanitary Inspection, and since the amendment of the law it is shown that a careful study of each epidemic has been made. The records for the year show that 37 cases have been reported to the division by superintendents of institutions. number includes 3 cases of diphtheria, 20 of typhoid fever, 12 of tuberculosis and 2 of measles. Each epidemic is carefully studied and every effort is made to ascertain the source of the disease and methods by which it is being transmitted from one person to another. In these inquiries the division has met with the hearty co-operation of the superintendents and managers of institutions, and any suggestions which have been made were immediately complied with.

As local boards of health are frequently in doubt as to the proper action which is to be taken, this question is fully presented in the report of the division, and the information given will doubtless prevent the bringing of illegal actions by local health authorities, and lead to a better understanding of their relation to nuisances affecting the health of citizens.

The epidemiological work of the division as presented in the report is of special interest. The investigation of epidemics is most interesting and useful, often resulting in the discovery of the cause of the epidemic and with the case known in limiting the extension of contagious disease. The reports of several epidemics occurring in the State during the year are worthy of consideration.

DIVISION OF SEWERAGE AND WATER SUPPLIES.

The work of this division during the year has been continued along the same lines as in the past, efforts being made to enforce the laws regarding the prevention of pollution of the waters of the State.

Inspectors are constantly patrolling the watersheds and streams for the purpose of abatement of pollutions. Prevention of pollution is also accomplished by means of sewage treatment and disposal plants. This work is increasing rapidly throughout the State, there being an increase from 39 plants in October, 1908, to 105 plants in operation and 6 under construction at the present writing, practically all of the standard methods of sewage treatment in use in the State.

The methods of enforcing the laws leading to the installation of sewage disposal plants have been explained in former reports, a list of municipalities now "under orders" being given in the report of the Division of Sewerage and Water Supplies. There is also a list of municipalities having plans of sewage disposal plants approved without having been placed under orders.

In the detailed report of the sewage disposal plants will be found descriptions of such plants as have not been described in previous reports, and a short statement of the present condition of each one inspected. Methods employed for improving the efficiency of sewage disposal plants are also outlined in the report of this division.

A private company has offered to install a unit to purify, by the ozone process, 1,000,000 gallons per day of the sewage of Trenton. What the results of this trial will be remains to be seen.

Considerable work has been done during the year in regard to water supplies throughout the State.

Of the 366 towns now having public water supplies, 142 receive a treated water, either filtered or disinfected. A detailed account of these is given in the report of the Division of Sewerage and Water Supplies.

The same policy of having a representative of the division instruct the attendant how to get the most efficient service from his plant, has been pursued as has been carried out in the case of sewage disposal plants.

As some of the filtration plants have been furnished with bypasses, by means of which raw water is admitted to the distributing mains, authority has been given the division to have them sealed as they are a source of serious danger. These seals may be broken only with the consent of the State Board of Health, under penalty of action in the Court of Chancery.

It is necessary to keep careful watch of untreated surface supplies, as danger of contamination becomes more and more imminent as the population upon the watersheds increases. There are several supplies in the State which should be purified before being delivered to consumers.

Several new water supplies have been established during the year, a list of which is given in the report of this division.

Stream inspections have been continued throughout the year, extra inspectors being employed during the summer to make a complete inspection of the ocean front and tributaries. During the year 1,667 cases of pollution were reported, 485 of which were abated upon reinspection.

One of the most important features of the work of the division is the work done in the laboratory. During the year there have been analyzed 1,934 samples of water and sewage. On account of lack of space, only routine work can be done. The laboratory is well equipped with apparatus, but more room with an experiment station for investigating the purification of water, sewage and trades waste is urgently needed.

DIVISION OF CREAMERIES AND DAIRIES.

The work of this division has steadily increased since 1908. This is largely due to the growing demand for dairy inspections from local health authorities and to the action of the legislature in passing a law requiring the investigation of the methods used in the manufacture of ice cream and the licensing of all such factories by the State Board of Health.

During the past year the work of the division has increased over 50 per cent., there having been made 3,064 inspections of all places where milk and cream is handled, as against 1,989 inspections during the previous year. These include dairies, creameries, milk depots and ice cream factories. One thousand eight hundred

and seventy-four inspections of dairies alone were made by the inspectors, this being an increase of 396 over the dairy inspections of the previous year.

Considering the fact that no increased appropriation was granted by the Legislature for the work of this department, the amount of labor accomplished has been remarkable and has taxed the time and ability of the staff to the utmost. An increased amount of work in the field entails additional work in the office of the division, and it has been necessary for one of the inspectors to devote a considerable portion of his time to routine office work when he might have been employed in making inspections. The annual appropriation for the work of the Division of Creameries and Dairies for the past few years has been \$8,450. Out of this sum must be paid the salaries and traveling expenses of a chief and three inspectors, the salary of a clerk, and incidental expenses, including blanks, postage and stationery.

The office records of the division show that there has been a general improvement in the condition of the milk supply in the State. Each dairy inspected is given a numerical rating for every item on the score-card, each one of which has a bearing on the methods used in handling milk. By this system the division can readily refer to the conditions in any given locality any year since the system was started in 1908.

It is estimated that there are ten thousand dairies in the State, besides the 174 creameries and 415 ice cream factories reported. The creameries have been inspected and reinspected many times during the year, and it is now believed that they have reached a very fair state of sanitation. The methods employed in handling milk and its products in these establishments have undergone radical changes for the better since the enactment of the creamery The Legislature at its last session amended the law in 1906. above act so as to include the licensing of all places where ice cream is manufactured. It was originally the practice of the department to classify only large wholesale ice cream establishments as creameries, but a recent amendment to the bakery act extended this classification to establishments in which ice cream is manufactured, including cellars, when the sanitary conditions were approved by the State Board of Health. These latter, under the act, must now be licensed to legally conduct the business of manufacturing ice cream. Although the law went into effect just at the beginning of the busy season, many of the operators immediately made considerable improvements in their establishments in order to comply with the requirements of this Board, and others are planning extensive alterations during the winter months, so that their places may be in a condition to be licensed at the beginning of the next season. The methods of these manufacturers have been carefully watched and improvement over former methods has been insisted upon. In order to give proper credit to those manufacturers who were careful in their habits, and whose places were kept in a sanitary condition, a score-card was prepared on which to record the conditions found. This card has been used during the summer, and shows in detail the sanitary conditions of every place inspected. These cards are filed in the office of the division. A code of rules was also prepared and has been adopted by the Board, and it is the intention of the Board to have them printed and posted in every ice cream establishment in There is still a great deal of preliminary work to be done in ice cream inspection, since it has been impossible to visit the factories located in the southern portion of the State and in the widely scattered country sections.

The greatest task confronting this division is the inspection of dairy farms. To do this work completely and thoroughly, it would be necessary to have an inspector stationed in every county The expense would be quite heavy, and would be of the State. increased by the necessity of hiring conveyances for country inspection. With the present meagre force of the division, however, it is utterly impossible even to inspect all the farms once a year. The division has therefore adhered to the plan adopted in 1908, of co-operation with local boards of health who manifest a certain amount of interest in their milk supply. It is believed that this method is the most economical, and produces the best and most lasting results. The number of local boards of health who have requested inspections of their dairy premises has now reached nearly forty, and they are highly pleased with the benefits derived from the present system. Many of these local boards furnish some sort of conveyance at their own expense and detail a local inspector to accompany the representative of this division to the local dairies, and otherwise assist the division in controlling their respective milk supplies. In some cases over 200 dairy inspections have been made for a single local board. These dairies are often located on widely scattered farms. The requests for inspection and reinspections of these farms, no matter how frequently they have been made, have been promptly met in all cases. The greatest need of the division at the present time is a larger appropriation in order to meet the additional demands which are being made on the department for dairy inspection.

PROHIBITION OF THE USE OF COMMON DRINKING CUPS.

The well established fact that disease may be transmitted from one individual to another by the use of the common drinking cup has resulted in legislation in several states, regulating or prohibiting the use of common drinking cups in public places. The laws of the various States differ somewhat in the methods by which the prohibition is accomplished, and as to the places in which such use of cups is prohibited.

The movement for restricting the use of the common drinking cup in this State had its origin among those interested in the prevention of tuberculosis, the view being taken that the removal of this avenue by which the disease might be transmitted would tend to limit its spread.

The following law was therefore introduced, and having been passed by the Legislature, was approved by the Governor of the State on April 13th, 1911:

ACT REGULATING THE USE OF THE COMMON DRINKING CUP.

CHAPTER 171, LAWS OF 1911.

An Act to restrict the use of common drinking cups and to prevent the communicating of infectious diseases.

BE IT ENACTED by the Schate and General Assembly of the State of New Jersey:

- 1. The use of the common drinking cup, an undoubted source of communication of infectious diseases, is hereby prohibited in all public places within this commonwealth, and the State Board of Health shall have full authority to establish such reasonable rules and regulations to make this prohibition effective as in their judgment seems wise and proper.
- 2. Whoever fails to observe the provisions of this act, or the rules and regulations of the State Board of Health made in relation thereto, shall be deemed guilty of a misdemeanor and be liable to a fine not exceeding twenty-five dollars for each offense.
 - 3. All acts and parts of acts inconsistent herewith are hereby repealed. Approved April 15th, 1911.

In compliance with the provisions of this act the State Board of Health adopted the following rules and regulations at a regular meeting of the Board held June 27th 1911:

WHEREAS, an act was recently passed by the Legislature (chapter 171, laws of 1911) restricting the use of the common drinking cups and to prevent the communicating of infectious disease thereby, and

WHEREAS, by the provisions of said act the use of the common drinking cup is prohibited in all public places within the commonwealth of New Jersey, and

WHEREAS, the State Board of Health is given full authority to establish reasonable rules and regulations to make this prohibition effective as in their judgment seems wise and proper, therefore, be it

Resolved by the Board of Health of the State of New Jersey, that the following rules and regulations are hereby adopted:

That on and after July 4th, 1911, it shall be unlawful to provide or maintain a common drinking cup—

- a. In any public park, street or highway.
- b. In any hotel, public school, public hall, theater, moving picture show, or public library.
 - c. In all municipal, penal, philanthropic and other institutions in this State.
- d. In any railroad or trolley station, railroad car, boat, or in any vehicle used for the carrying of passengers for a consideration.
- e. A public place within the meaning of this act will be construed to include any and all places, whether maintained by private or public authority, to which the public have the right of access at any time, with or without compensation.

It will be noticed that the definition of a public place is a very broad one, and that there are few places that are not included in the definition.

The chief exception is in factories and workshops and in public stores where, although the public shall be furnished with separate cups, employes may use the common cup.

The law does not apply to clubs where the public is admitted only on invitation. The law became operative on the 4th of July. On that date and for several days following there was a period of extreme heat, and as the public were not fully aware of the existence of the law forbidding the use of the common drinking cup, inconvenience and actual discomfort resulted, as oftentimes the travelling public were compelled to go without drinking water for many hours. Within a short time, however, it was noticed that persons were carrying individual drinking cups, and the severe criticisms of the law, which had appeared in the public press, disappeared. After becoming adjusted to the law a change came over the thinking public, and those who at first condemned it as inhumane and unjust, are now its champions. The cause for the

adverse criticisms was due almost entirely to the failure of the transportation companies to furnish individual cups on trains, or any any means by which a drinking cup could be obtained.

The law would appear to be defective in this particular, and Massachusetts, after a year or so of trial of a law similar to the one passed in New Jersey, decided that legislation was necessary to overcome the defect. As a result of this experience the following law was passed in 1911:

AN ACT relative to the furnishing of drinking water on passenger trains.

Section 1. Every railroad car while in use for the transportation of passengers, upon a train running thirty miles or more, shall be provided with a sufficient quantity of pure drinking water in such place or places in the car as will be convenient for the passengers, and with individual drinking cups which shall be accessible to the passengers. No charge shall be made for the water or for the drinking cups. The water and cups supplied shall be subject to the supervision and approval of the State Board of Health; and the said board shall enforce the provisions of this act. Equivalent methods of furnishing drinking water free to the passengers may be provided, instead of the foregoing, provided that the same are approved by the State Board of Health.

Section 2. Violations of this act shall be punished by a fine of not less than twenty-five dollars for each trip made by a car used for transporting passengers and not provided with water and utensils for its distribution in accordance with the provisions hereof.

Section 3. This act shall take effect on the fifteenth day of June in the current year.

We believe that with the passage of a similar law in New Jersey, every objection to the present law will be removed.

The law as it now stands has not only a bearing upon the transmission of disease but is also an object lesson in cleanly habits which will be valuable. The fact that the use of the common drinking cup is prohibited has called the attention of the public in a way that nothing else could to the many methods of disease transmission, and that the entrance of disease germs by the mouth is especially to be avoided. When the public at large have learned this valuable lesson, the number of cases of typhoid fever and tuberculosis should diminish.

OPHTHALMIA NEONATORUM.

Through the efforts of the medical profession of the State the Legislature of 1895 passed a law requiring midwives, nurses or relatives having charge of infants born when no medical attendant was present to make a report to the local board of health if the eyes of the infant became inflamed, swollen, or reddened, or showed any unnatural discharge, within two weeks of its birth. The local board of health was directed to immediately place such cases in charge of a legally qualified practitioner of medicine.

The Secretary of State was required to furnish copies of the law to physicians and midwives. The penalties under the act were fine or imprisonment.

The method of distribution of copies of the law and its dual penalties were not reasonable, and in 1910 the law was amended in these particulars. During the legislative session of 1911, through the efforts of citizens of the State who had been studying the causes of blindness, a further supplement to the law of 1895 was passed, which is as follows:

A SUPPLEMENT to an act entitled "An act for the prevention of blindness in the State of New Jersey," approved March eleventh, one thousand eight hundred and ninety-five.

BE IT ENACTED by the Senate and General Assembly of the State of New Jersey:

- 1. The State Board of Health shall furnish, free of cost, to physicians and midwives, registered under the laws of this State, such prophylactic remedies as it may deem best for the prevention of ophthalmia neonatorum, together with such instructions as it may deem necessary for the proper administration of the same.
- 2. The sum of two thousand dollars is hereby appropriated for the purpose of carrying out the provisions of this act when included in the annual or supplemental appropriation bill.
 - 3. This act shall take effect immediately. Approved April 6th, 1911.

In carrying out the provisions of this act a careful study was made of the various outfits for the prevention of cases of ophthalmia neonatorum which had been adopted by the several states in which laws requiring the distribution of such outfits had been enacted.

Before finally adopting the outfit which is at present in use, a leading ophthalmologist was consulted who expressed the opinion that many objectionable features in other outfits were not found in the one selected. The outfit consists of a square blue bottle having a capacity of one ounce. Attached to and forming the

stopper, which is a rubber bulb, is a glass eye dropper which, when in place, is partially submerged in the nitrate of silver solution.

Each vial has in it an ounce of 1 per cent. nitrate of silver solution.

These bottles are inclosed in stiff cardboard mailing cases. A circular giving full directions to physicians and midwives as to the care of the eyes of newly born infants and the use of the nitrate of silver solution is wrapped about each bottle before placing it in the case. The total expense of furnishing these outfits to the physicians and midwives in the State was \$900.00. A sufficient number of outfits are kept on hand to meet future requisitions.

Physicians have expressed hearty approval of the law and will doubtless make use of the preventive treatment. With midwives the proper use of the nitrate of silver is doubtful, and in dealing with them it will be necessary in some way to give individual instruction in the technique of applying the remedy.

With increased knowledge of the means of the prevention of ophthalmia neonatorum and methods of applying preventive measures the beneficial effect of the law in reducing the cases of blindness due to neglect upon the part of physicians and midwives to adopt such measures should be apparent.

COLD STORAGE.

The attention of the public has been directed for several years to the necessity for some legislative enactment to control the conduct of cold storage warehouses. The public press has at times been filled with articles in some instances containing exaggerated statements of the amount of decomposed and deleterious foods which were placed in cold storage and finally reached the food consumer. Evidence was produced in cases brought by the prosecutor of Hudson county against cold storage warehouse companies sufficient to indicate the necessity for legislative regulation. Jersey City, located as it is, so near to New York City, has been chosen by various companies as the site for cold storage warehouses. These warehouses are in large part used for the storage of articles of food which are to be consumed in New York City, and only a small portion of the cold storage foods are sold to in-

14 REPORT OF STATE BOARD OF HEALTH.

habitants of New Jersey. Unless therefore laws were passed to control the conduct of the cold storage business the State might be open to criticism for failure not only to protect the citizens of New Jersey, but for neglect to safeguard the inhabitants of neighboring states against deleterious foods. For two years bills were introduced in the Legislature having in view the control of cold storage warehouses. The formulating of a law which would afford protection to food consumers and yet be just to the warehouse owners was an extremely difficult problem. Many hearings were held by legislative committees and the advice of the State Board of Health was sought. Finally an agreement was reached and the present law (chapter 189 of the laws of 1911) was passed. The law, although not as complete as it should be, is a step in the right direction, and experience with its enforcement will indicate wherein it may be improved. The law requires the dating of goods placed in cold storage in the State, and where articles are brought from cold storage in other States to be again placed in cold storage in New Jersey the dates when articles were originally stored in other States must be given. All articles on storage at the time the act took effect upon leaving cold storage warehouses are required to be marked with the dates when the articles were The maximum limit of time for the received from cold storage. storage of foods in the warehouses is fixed at ten months unless an extension is granted by the State Board of Health. The owners of cold storage warehouses are required to make quarterly reports to the State Board of Health of goods on storage, and also to report all goods which have been in storage for a period of ten months. The transfer of goods from one warehouse to another for the purpose of evading the act is forbidden, and restorage of cold storage goods after being placed on sale is prohibited. The State Board of Health is empowered to adopt rules and regulations governing the conduct of cold storage plants. After careful consideration the following rules and regulations were adopted by the Board:

^{1.} For the purpose of enforcing this act the term "Cold Storage" will be held to mean the storage of foods, intended for sale or distribution, in establishments employing refrigerating machinery or ice for the purpose of refrigeration, for a period exceeding thirty days, at or below a temperature of forty degrees Fahrenheit; and the term "Cold Storage Warehouse" will be held to mean any establishment employing refrigerating machinery or ice for the purpose of refrigeration, in which foods intended for sale or distribution are stored at or below a temperature of forty degrees Fahrenheit for a longer period than thirty days.

- 2. Articles which are held at low temperatures for temporary protection only, for periods less than thirty days, will not, for the purposes of this act, be regarded as being held in cold storage, and such articles need not be dated, but such articles must be kept in separate rooms or enclosures from which articles are kept in cold storage, and persons operating cold storage warehouses must keep an accurate record of the date or receipt and removal of such articles, which record shall at all times be open to inspection by agents of the State Board of Health. Provided, however, that if articles of food which have been kept at a low temperature for temporary protection are held for more than thirty days at such low temperature, they shall then be regarded as having been placed in cold storage, and shall be marked, in the manner provided in rule four, with the day, month and year when the period of temporary protection began, and such articles shall be removed from the room or enclosure in which articles temporarily protected are kept, and shall be placed in rooms or enclosures used for cold storage.
- 3. Articles of food intended for cold storage shall, when they are offered for or placed in storage, be enclosed in boxes, barrels, crates or other packages sufficiently strong and tight to prevent them from being injured by careless handling, unless the articles are of such a character that it is impracticable to pack them in containers.
- 4. When articles of food contained in packages are placed in cold storage, each package shall be legibly marked in plain figures, not less than three-eighths of an inch in height, with the day, month and year when such articles were placed in storage, and when articles of food not contained in packages are placed in cold storage, each individual article shall be marked in the same manner. Figures separated by hyphens may be used to indicate dates, and it will be regarded as sufficient dating if the last two figures of the number denoting the year when such articles of food were placed in cold storage are used. For example: June 26th, 1911, may be written: 6-26-11. Whenever tags or labels are used on which dates are to be marked, they must be securely fastened to the articles to which they are affixed.
- 5. Articles of food held at low temperatures during the process of manufacture will not be regarded as being held in cold storage within the meaning of this act, and such articles need not be dated.
- 6. When articles of food have been kept in cold storage for ten calendar months, report of such fact shall be made to the State Board of Health by the persons having custody of such articles, and such articles shall be held in cold storage by such persons until they have been inspected by the agents of the State Board of Health and released by order of the Board.
- 7. Upon receiving applications therefor, the State Board of Health will issue temporary consent to persons operating cold storage warehouses, permitting them to receive articles of food which have been in cold storage in other states, but which do not bear the dates of entrance into such storage; which consent shall be good only until such articles have been inspected by agents of the State Board of Health. If upon inspection it is found that such articles are in proper condition for further storage, and if it appears that the person having custody of them has been unable to ascertain the date on which they were placed in cold storage in another state, a permanent consent for the storage of such articles may issue. If it is found that such articles are in such a condition that further storage will impair their purity, quality or wholesomeness, permission for further storage will be refused.
- 8. For the purpose of facilitating the removal of articles of food from cold storage before the expiration of the statutory period of ten calendar months, persons operating cold storage warehouses shall notify the owners of all

articles of food stored by them of the date when such articles will have been in storage ten months, at least fifteen days before such ten months have elapsed.

9. Until further notice, the following classification of foods will be used by persons operating cold storage warehouses and refrigerating plants in making quarterly reports of articles of food held in cold storage:

Eggs, case. Eggs, broken.

Eggs, broken. Butter. Cheese.

Poultry.
Game.
Meat, fresh.

Meat, salted, smoked or pickled.

Fish (including shell fish), fresh.

Fish, salted, smoked or pickled. Dried fruits.

Nuts. Green fruits. Green vegetables. Miscellaneous.

Shell eggs are to be reported in terms of cases and dozens, all other articles to be reported as packages, and, in so far as the same is practicable, by weight Articles not intended for use as food products not to be reported.

10. Requests for permission to store food for a longer period than ten calendar months must be made by the owners thereof to the State Board of Health, upon blanks which will be furnished by the Board upon application. No such request will be considered by the Board unless a satisfactory reason, stating why such extension of storage is desired, is given.

Before such requests are granted the articles of food to which they refer must be inspected by agents of the Board. Requests should therefore be made at least two weeks before the statutory time limit for storage has expired.

- 11. No materials in a state of decomposition or putrefaction or in any other condition which renders them unfit for use as food shall be placed in cold storage in the same room or enclosure with articles intended for use as food.
- 12. When articles of food, held in cold storage, are removed from the packages in which they were contained and placed in other packages, the date of original entry into cold storage of such article shall be placed upon the containers into which they have been transferred, and if articles of food which were placed in cold storage on different dates are placed in the same container, the date of storage of the article longest stored shall be placed upon the container to which such articles have been transferred.

The divisional report made by R. B. Fitz-Randolph, who is the director of the laboratory and has supervision over the enforcement of laws relating to food and drugs, reviews the work which has been done by the department to secure the enforcement of the law.

SUPERVISION OVER OYSTERS, CLAMS AND SHELL FISH.

The occurrence of epidemics of typhoid fever, due to the eating of oysters and clams taken from sewage polluted waters has caused special activity on the part of State and national authorities in a combined effort to secure as far as possible such protection of the industry as will relieve consumers of the danger of contracting the disease by this method of infection. The State of New Jersey is especially interested in the problem as the industry in the State represents an output returning between three and four million dollars each year. These products are not only consumed within the State, but are shipped in large quantities to many parts of the country. It is necessary therefore to protect the citizens of our own State against any possibility of infection arising from oysters and clams taken from the waters of the State, and the obligation rests upon the State of protecting foreign consumers. In 1909 the national authorities issued an order forbidding the sale of oysters which had been "floated," that is taken from their original locations in the various bays and rivers of the State and placed for a short period of time in semi-fresh water. This action on the part of the national authorities led to a conference at Washington, D. C., at which ovstermen from all parts of the country were The contention of the Department of Agriculture that the floating of ovsters was in violation of the Federal food law. was thoroughly discussed, and much valuable evidence was given on the practical side of oyster production. Following the conference a change was made in the original ruling of the Agricultural Department by which the sale of "floated" oysters was permitted when the oysters were "floated" in waters practically free from pollution by sewage, and having a certain salt content.

At the session of the State Legislature held prior to the change in the ruling of the Department of Agriculture the State Board of Health, realizing the necessity for supervision of the oyster industry because of its relation to public health, suggested the passage of a law giving the Board the power to secure a lessening of the pollution of streams in which oysters are floated and to grant licenses to oyster growers when upon investigation it is found that the oyster beds are free from pollution. The law was passed, and the fact that the State had taken this advanced step in safeguarding the industry doubtless was a moving factor leading to the alteration of the original ruling of the Department of Agriculture. Under the provisions of the law the State Board of Health, cooperating with the local boards of health having supervision over the localities in which the oysters are grown, has almost entirely removed sources of pollution along the Maurice River. required the State Board of Health to issue licenses to owners of oyster beds when warranted by conditions. This method was unsatisfactory, and it was deemed advisable to secure a change in the law by which instead of licensing the oyster planter definite power should be given to prohibit the sale of oysters subject to pollution or other conditions dangerous to health. Chapter 146 of the laws of 1911 carries out this plan. Under its provisions the State Board of Health no longer issues licenses. The duty is imposed upon the Board of inspecting the various oyster and clam beds in New Jersey for the purpose of ascertaining the sanitary condition of these beds and the fitness of the oysters for use as food. When unsanitary conditions exist or the product is unfit for use as food the Board may condemn the beds and prohibit the sale of oysters therefrom. The clam and shell fish industries are also, in accordance with the law, under the supervision of the State Board Violations of the law are punishable by fine, and when repeated violations occur application may be made to the Court of Chancery for an injunction to restrain such violation. This amendment to the original act, we believe, will enable the Board to protect consumers and regulate the industry so that it may not be injured by unwarranted attacks upon the method of its conduct.

FOOD LAW PENALTIES.

When the original act to secure the purity of foods, confectionery, drugs, &c., was passed provision was made that if the State Board of Health brought an action to recover a penalty for violation of the law the amount of money recovered should be paid into the State Treasury, and when such action was brought by a local board of health the penalty recovered should be paid into the municipal treasury. In 1907 there was a revision of this law, and through an oversight all penalties collected, whether the action for recovery was undertaken by the State or local board of health, were paid into the State Treasury. This disposition of penalties collected was unjust, as when the local board of health brought suit considerable expense was involved in collecting evidence and legal fees with no money returned to meet these expenditures. a result of the change in the law local boards in many instances discontinued active work in the prosecution of violators of the The Legislature of 1911 amended the law (see chapter food law. 353 of the laws of 1911) by providing for the payment of penalties collected by local boards of health into the treasury of the local municipality in which suits for violation of the food laws were brought. There is now no reason for local boards failing to carry on a more active campaign for the enforcement of the food laws of the State.

ICE CREAM.

In the supplement to the act to secure the purity of food, enacted in 1906, provision was made for supervision by the State Board of Health of butter, cheese and condensed milk and for the regulation of the places where such products were placed, stored or kept. No allusion was made to ice cream. Local boards of health under the provisions of chapter 68 of the laws of 1887 were empowered to pass ordinances to secure the sanitary condition of all places in which foods were manufactured. was general in its nature and special laws, the enforcement of which was entrusted to the Department of Labor, giving to that department the power to regulate places where foods were manufactured, tended to relieve local boards of health of any responsibility in connection with making special effort to enforce sanitary regulations in factories or places where foods were manufactured. Inspections made of places where ice cream was manufactured revealed conditions calling for immediate action. Many of these establishments were located in cellars where there was insufficient light, the floors made of absorbent materials retaining dirty decomposing liquids and no provision made for the exclusion of flies. In many instances no provision was made for cleansing the hands of attendants, and utensils and apparatus used in making the ice cream were unclean. The methods of handling the cream were such as to expose it to contamination and possibly to infection. With a knowledge of such unsanitary conditions existing in ice cream factories it was not difficult to secure remedial legislation. It was only necessary to add ice cream to the foods mentioned in the act of 1906. Chapter 59 of the laws of 1911 makes the provisions of the original act apply to ice cream. This law forbids the use of any portion of a building, in which ice cream is manufactured, as a dwelling, laundry or kitchen, an exception being made in cases where, prior to the passage of the law, ice cream factories were located in dwellings, permitting the business to be continued if the sanitary conditions and arrangements were such

as could be approved by the State Board of Health. Ice cream manufacturing companies are required to obtain a license from the State Board of Health under such rules and regulations as the Board may adopt. Chapter 327 of the laws of 1911, which is a supplement to the law regulating factories and workshops, also has in it a special provision that no ice cream shall, after the passage of the act, be manufactured in any cellar, basement or place unless after inspection of such place of manufacture by the agents of the Board of Health of the State a license shall be granted by said Board certifying the condition and arrangement of such ice cream factory to be sanitary, and giving power to revoke such license at any time for cause. With this dual supervision over the manufacture of ice cream there should be an immediate lessening of unsanitary conditions existing in these establishments.

As a guide for owners of ice cream manufacturing plants and for the purpose of giving definite directions as to the conduct of the business the following rules and regulations were adopted by the Board:

- 1. The site for an ice cream factory should be preferably above ground; the surroundings should be clean and free from all refuse accumulations.
- 2. No building space should be used for the manufacture of ice cream which is not well lighted and ventilated, and which is not provided with a suitable floor; if such room or space be a cellar or sub-cellar, or be located in a cellar or sub-cellar, the floor of the same must be tight, preferably concreted, and properly graded and drained. The surfaces of the sidewalls and ceilings of all rooms in which ice cream is manufactured shall be smooth and free from ledges, projections or crevices which may afford lodgment for dirt and dust.
- 3. No ice cream factory shall be located or maintained within any kitchen, wash room, workshop or inhabited room, nor in proximity to any privy, cesspool or urinal, nor in any room or space which is not of such size or construction as to permit the entire separation of all milk and its products, both in the process of handling and storing, from all sources of contamination, either by dirt, noxious gases, infective organisms or substances, or anything liable to alter unnecessarily the quality of such milk or its products.
- 4. Every person maintaining an ice cream factory shall have a sufficient number of receptacles, made of non-absorbent material, for the reception, storage and delivery of milk, cream and ice cream, and shall cause them to be kept clean at all times; having delivered any receptacles to a consumer or customer, shall not again use the same for the reception, storage or delivery of milk, cream or ice cream, or any other product, until it has been to his personal knowledge, properly cleansed after such use.
- 5. Every person maintaining an ice cream factory shall provide for the use thereof a supply of pure and wholesome water sufficient for the proper washing of all cans and appliances.
- 6. Every ice cream factory shall be equipped with adequate facilities for cleansing containers and utensils used in the handling of milk, cream or the

finished product. The surfaces which come in contact with the milk or its manufactured products shall be exposed daily, after a thorough washing, to the application of live steam. If, however, a very small quantity of ice cream is manufactured daily, and the installation of a steam appliance is impracticable, then the heating and washing facilities must be approved by the Chief of the Division of Creameries and Dairies.

- 7. Every factory must be provided with proper draining racks, and the same should be thoroughly well cleaned.
- 8. All raw materials, pending their manufacture into ice cream, shall be stored in such a way that their wholesomeness will not be impaired.
- 9. The re-freezing of milk, cream or ice cream returned to the factory is prohibited.
- 10. In no case should the operator's hands come in contact with the ice cream, and suitable appliances should be provided for removing the finished product from the dasher and interior of the ice cream freezer.
- 11. All employes must be neat in their habits; their outside garments must be of material which can be readily cleansed by washing, and such garments must be changed at weekly intervals. Every ice cream factory shall be equipped with basin, soap and towels so that the employes can wash their hands as often as necessary.
- 12. All doors, windows or other openings shall be thoroughly screened so as to prevent the entrance of flies or other insects between the first day of April and the thirty-first day of October.

MILK STANDARD.

It is seldom that we are called upon to record a backward step in the public health legislation of the State. For years it has been the policy of the Board to insist upon more rigid laws for the protection of the public health, and especially in regard to the protection of foods.

The standard for milk was by law placed at 12 per cent. total solids, and with the enforcement of this requirement there has been a steady improvement in the milk sold throughout the State. Gradually milk below the standard was being forced out of the market and many dairymen by the selection of better cattle and improved scientific methods of feeding were producing a milk well above the legal requirement. With the increase in the number of Holstein cows in the dairies and the tendency to have a herd consist entirely of these animals, it became more and more difficult for the owners of such herds to maintain the standard of 12 per cent. total solids, and suits were brought for violation of the law and penalties were collected. The farmers argued that the standard was too high and could not be maintained.

A bill was introduced during the legislative session of 1911 reducing the legal standard for milk from 12 per cent. total solids to 11.30 per cent. When the bill was under discussion the State Board of Health took the position that the 12 per cent. standard was a fair one, and that any lowering of the standard would put low grade milk in competition with high grade milk. The bill, however, became a law and the 11.30 per cent. total solids is the legal standard for milk in our State. Since the enactment of the law many dairymen who were endeavoring to produce and distribute a high grade of milk have expressed the opinion that an error has been made in reducing the standard, which will of necessity result in an injury to the great dairy interest of New Jersey. A trial of the present law will, we believe, ultimately lead to its repeal and a return to the old standard.

REPORTING OF CONTAGIOUS DISEASES.

The act, requiring the reporting of contagious diseases, passed in 1895, was designed to secure prompt and accurate reports by physicians to local boards of health of all cases of contagious diseases occurring under their professional supervision. Certain diseases were specified, and the State Board of Health was empowered to add to this list such diseases as might be classed as especially dangerous to health.

Several diseases, not in the original law, have been added to the list of reportable diseases, by resolution of the Board. These are placed in the law of 1911 so that physicians reading the law may be fully cognizant of the diseases which shall be reported.

The law of 1895 required secretaries or registrars of local boards of health to send each week a report of cases of contagious diseases occurring in each sanitary district. Experience has shown that it is difficult to fix the responsibility for failure to make these weekly reports, and the effort is made in the new law to make some one responsible and thus secure more complete and accurate reports.

The selection of this person to receive the reports is optional with the local board of health, but some one must be appointed to carry out the intention of the law.

An additional change from the provision of the original act provides for the keeping of more accurate records by local registrars and for the payment of ten cents for each report forwarded to the State Board of Health.

It is believed that this method will secure more prompt and full returns and will be of great assistance in checking the spread of contagious diseases throughout the State. A similar plan for securing reports of births, marriages and deaths has been followed in this State for thirty years and has resulted in placing New Jersey highest in list of registration states in this country. Similar plans have also been adopted in other states.

All work directed to the prevention and control of communicable diseases is based upon the securing of a knowledge of early cases and effective measures cannot be adopted after any given disease has reached an epidemic stage. The enactment and enforcement of this law will doubtless lead to such immediate knowledge on the part of the State Board of Health of outbreaks of preventable diseases that advice and assistance may be rendered local boards of health in time to prevent extensive epidemics, and our State will be placed upon an equal footing with other progressive states in dealing with preventable diseases.

COMMUNICABLE DISEASES ON DAIRY PREMISES.

In bringing suits for violation of chapter 47, laws of 1909, which requires physicians to report to the State Board of Health all cases of communicable diseases occurring on dairy premises, the point was raised that as it was a supplement to the act of 1887 the title of the act was not consistent with its provisions, and that the act was therefore unconstitutional. To overcome this objection, the law passed this year (chapter 380, laws of 1911), is made a supplement to an act for the protection of the public health, passed in 1895, and will overcome the constitutional defect.

Under the act of 1909, physicians are required to make reports of cases of certain communicable diseases occurring on dairy premises, but no provision was made for reporting cases of such diseases occurring in families of persons who are employed on dairy premises.

24 REPORT OF STATE BOARD OF HEALTH.

It is obvious that the reporting of cases of contagious diseases occurring in the families of employes residing away from dairy premises is as essential as of cases occurring on the premises. As an illustration, a person employed on dairy premises might have a case of diphtheria in his family, and after caring for the sick go directly to the dairy and assist in milking. In this way the milk could become infected and cause an epidemic among the consumers of the milk. The wording of the section bearing upon this point is such that the physician is protected, as the following phraseology is used: "Every physician who shall have knowledge," etc., "that a person is employed on dairy premises."

It was the intention of the Board to provide in the law for the payment to physicians of the sum of twenty-five cents for each report of a case of contagious disease existing on dairy premises, but this plan was not carried out, as it was decided that it was a duty the physician owed the State, and as he received from the State certain privileges such as exemption from jury duty, no remuneration for such a slight service should be demanded or allowed.

Experience has shown that since the original act was passed no epidemics have been traced to infected dairy premises where the cases were promptly reported and prompt protective measures were adopted.

MARRIAGE LICENSES BY DEPUTY REGISTRARS.

When application was made for a marriage license under the provisions of the marriage license law of 1910 it was necessary for the registrar or duly authorized official to personally issue the license. No provision was made for the issuing of licenses by any person or persons other than the registrar. In the event of the absence of the registrar, or his detention by illness, the contracting parties could not secure a license.

This defect in the original law has been remedied by an amendment giving any official authorized to issue a marriage license the power to appoint a deputy who may issue marriage licenses during the absence of the said duly authorized official.

MARRIAGES WITHOUT CONSENT OF PARENTS.

In the carrying out the provisions of the marriage license act of 1910 it was found that there were some instances where a marriage license should be granted where the consent of parents to such marriage could not be obtained. In cases of seduction the male applicant for license being a minor, although the parties involved were willing to marry, parents on account of a difference in religious beliefs of the contracting parties or for other, to them, good and sufficient reasons, would refuse to give consents.

From the standpoint of morality and public policy under such circumstances, the marriage of the parties should not be interfered with.

To overcome the defect in the original law the following amendment was passed by the Legislature of 1911:

CHAPTER 318.

AN ACT to amend an act entitled "An act concerning marriages (Revision of 1910)," approved April eleventh, one thousand nine hundred and ten.

BE IT ENACTED by the Senate and General Assembly of the State of New Jersey:

- 1. Section seven of the act to which this is amendatory be and the same is hereby amended so that it shall read as follows:
- 7. If any such male applicant for a license to marry shall be a minor under the age of twenty-one years, or any such female applicant under the age of eighteen years, such license shall not be issued unless the parents or guardians of the said minor, if there be any, shall first certify under their hands and seals in the presence of two reputable witnesses, their consent thereto; which consent shall be delivered to the assessor, registrar or clerk issuing the license. If the parents, or either of them, or guardian of any such minor shall be of unsound mind, then the consent of such parent or guardian to the proposed marriage shall not be required. If any such male applicant for a license to marry shall be a minor under the age of twenty-one years, and shall have been arrested on the charge of sexual intercourse, with a single, widowed or divorced female of good repute for chastity, and that such female has thereby become pregnant, said license to marry such female may be issued to any such applicant without the consent of the parents, or either of them, or of the guardian of either of said parties to such proposed marriage.
 - 2. This act shall take effect immediately.

Approved May 1, 1911.

DEATHS IN HOSPITALS.

There is an increasing agitation throughout the State of the advisability of having county and municipal hospitals for the care of communicable diseases. In the county of Essex a contagious disease hospital is maintained by the Board of Freeholders to which patients may be sent from any part of the county. State institution for the care of soldiers is located at Kearny, Hudson county, and that for sailors at Vineland, Cumberland county. When patients in the State institutions above mentioned died of a contagious or infectious disease the death certificate was filed with the proper officer of the municipality in which the institution was located. Many of the decedents were from other parts of the county or State, and not permanent residents of the sanitary district in which death occurred. In estimating the death rate of the counties or municipalities having institutions for the care of cases of contagious and infectious diseases it was found that the death rate was slightly increased by institutional deaths which made it appear that the municipality or county in which such institutions were located had a higher death rate than other municipalities or counties of the State. The including of such deaths of non-residents in the estimate of the total death rate was illogical and misleading. A supplement to the act of 1888 requiring the reporting of vital statistics was passed during the legislative session of 1911 (see chapter 154 of the laws of 1911), which requires that no death occurring in hospitals for contagious diseases maintained by counties of the State shall be included in the deaths occurring in the municipality in which the hospital is located unless the person dying had last place of residence in the municipality in which the hospital is located. In estimating death rates provision is made for assigning the deaths of those dying in institutions to the locality from which they were sent to the hospital. Physicians employed in the hospitals named in the act shall, in the death certificates, state the institution in which the death occurred and the former or usual residence of the de-The penalty for violation of the act is twenty dollars. This amendment will tend to make the estimate of the death rates in municipalities in which there are contagious disease hospitals more accurate, and the necessity for the law will be more apparent as the number of such hospitals in the State is increased.

LICENSING OF PLUMBERS.

Repeated efforts have been made by the plumbers of the State to secure legislative recognition, and bills introduced for this purpose have failed to become laws because of defects which were difficult to overcome. These measures would on the one hand be favored by the master plumbers and on the other opposed by journeymen plumbers. The only bill introduced which received favorable consideration, yet failed to become a law, was one which provided for the appointment of a central board for the examining and licensing of plumbers. During the last session of the Legislature a renewed and successful effort was made to secure the enactment of a law governing the licensing of plumbers (chapter 307 of the laws of 1911). The act gives local boards of health the power to pass ordinances and make rules and regulations for the purpose of regulating the practice of plumbing; to issue licenses and to appoint an examining board to determine the qualifications of applicants for licenses. This examining board is to consist of three persons, one of whom shall be a plumbing inspector in the employment of the local board of health, one a master plumber and one a journeyman plumber. Although many objections to this method of regulating plumbers were brought to the attention of members of the Legislature when the law was under consideration, the plumbers were so insistent upon recognition and some control of the business that the law was enacted. There are approximately 470 boards of health in the State, and of this number 234 are in townships, and there are at least 161 small boroughs in which there is no regularly appointed plumbing inspector, so that in these sanitary districts no such licensing board as specified in the act could be organized unless a plumbing inspector were appointed. No plumbing inspector can be appointed to serve on a local board of health without obtaining a license from the State Board of Health. As a rule in townships and small boroughs there is no plumber qualified to take the examination. Under these conditions two-thirds of the sanitary districts of the State cannot comply with the law. If a licensing board were appointed who favored only the employment of home labor, the improper enforcement of the law would result in the exclusion of plumbers living outside a given sanitary district from competitive bidding

on plumbing work. Further, the plumbing inspectors appointed by local boards of health are not members of the boards, and were they placed upon the special boards for licensing plumbers it would virtually be a relegation of the power of the boards to non-members. These defects of the law can readily be remedied and after a thorough trial of it doubtless new legislation applying to all the sanitary districts of the State, and containing a provision for the appointment of a central examining licensing board to which all plumbers in the State shall apply for licenses will be enacted.

Annual Conference of Local Boards of Health.

The State Board of Health was authorized by the Legislature several years ago to hold a conference of local boards of health for the purpose of discussing health matters relating to the numerous sanitary districts of the State. Two conferences were held. The meetings were attended by a few representatives of local boards of health while many of the larger cities and towns sent no delegates. The papers presented at the meetings and the discussions on the papers which were read were of interest, a full account of the conference being published in the yearly reports of the State Board of Health.

Attendance at the meetings of the New Jersey State Sanitary Association, which are held each year in the month of December, was affected by the conferences of local boards of health held in October. Taking into consideration the apparent lack of interest on the part of local boards of health and the time of holding the meeting of the New Jersey Sanitary Association, it was decided that the meetings should be combined. This policy has been followed for two years, and the result is far from satisfactory. The representatives of local boards have had no opportunity at the meetings of discussing problems in which there is a vital local interest and have felt that it would be wiser to return to the plan of holding separate meetings.

During the year an organization, with a large and representative membership of Health Officers and Inspectors of New Jersey, has been formed. The members of the association are ready and willing to assist in making the annual conference a successful one. The next conference will be held in January, 1912, as a meeting in October of the present year would conflict with other meetings of a similar character. An effort will be made to make the meeting an instructive one and the opportunity afforded members of local boards of health to exchange views and compare notes on the methods employed in the sanitary districts of the State to secure the enforcement of sanitary regulation will be extremely beneficial.

MARITIME QUARANTINE.

Only one of the eight ports of entry for shipping in New Jersey is provided with a health officer of the port. This is the port of Perth Amboy which, on account of its nearness to the port of New York, is showing rapid increase in the number of vessels entering each year. The port is also protected by the Marine Hospital Service, and a representative of that department inspects all foreign vessels entering the port. National and State authorities have cooperated in the quarantine service, and the record for the past year shows that they have been alert and active in the effort to detect cases of communicable diseases occurring on incoming vessels. Dr. G. W. Fithian, the Health Officer of the port, appointed by the Governor of the State, in his annual report shows that under his supervision one hundred and fourteen (114) vessels, crews and cargoes have been examined. Forty-seven (47) of these vessels were from foreign ports and sixty-seven (67) were Seventy-three (73) were steam vessels and fifty-one coastwise. (51) sailing vessels. The fees collected from the vessels examined amounted to \$404.50. The officer of the port, being somewhat in doubt as to his duty in reference to vessels first entering the port of New York, referred the example of a steamship leaving Liberia, discharging a portion of cargo in New York and subsequently entering the port of Perth Amboy to the Attorney General for an opinion. The opinion was as follows:

> STATE OF NEW JERSEY, TRENTON. N. J., September 15th, 1910.

Dr. G. W. Fithian, Health Officer of Perth Amboy, Perth Amboy, N. J.:

DEAR SIR-Your letter of July 20th to the State Board of Health was referred by that body to this office.

You state the case of a vessel leaving Liberia, discharging a portion of cargo in New York, and subsequently entering the port of Perth Amboy, and desire to know what are your duties in reference to this vessel, and what fees, if any, are to be collected.

Your duties as Health Officer, seem to be those included in sections four, five, six, seven, eight and nine of the the act of March 21, 1900.

This vessel clearly did not enter the port of Perth Amboy from any port in the United States, south of Cape Henlopen, or from any West India, Bahama or Bermuda Island port, but came from the port of New York, I assume at a time when there was no communicable disease existing in the port of New York, in the sense where that term would be ordinarily understood. Unless you had reason to believe that there was matter contained in the cargo which might communicate disease when unloaded, it seems to me that you had nothing what-

ever to do with this vessel, nor to collect any fees therefrom. If there had been anything about the situation which made an inspection necessary to determine whether such vessel came, in fact, from a port in which there was a communicable disease, then, of course, it was your duty to board such vessel and make an inspection to determine the fact. There does not seem, however, to be any fee provided for an inspection made under these circumstances.

If the vessel had come direct-from Liberia, I think you would be entitled to assume the likelihood of disease to exist to such an extent as to warrant an inspection to such an extent as might be necessary to determine whether such risk actually existed. If you should find that it did not exist, you would be entitled to receive for the examination of such vessel the sum of five dollars, as coming from a foreign port; two dollars for examination of every one hundred, or fraction of one hundred, steerage passengers which might exist; in case a permit should be issued, twenty-five cents. If you should discover such conditions existing as to make a period of quarantine, or other operations provided by the statute necessary, these duties, I think, are sufficiently set forth in the statute, and the fees prescribed with sufficient clearness to give you no difficulty.

It is impossible to set down absolutely a schedule of fees, because these would depend upon the circumstances of individual cases.

Very truly yours,

NELSON B. GASKILL,

Assistant Attorney-General.

Knowing that cases of cholera had arrived at the quarantine station of the port of New York, and that cases of diarrhoea should be held as suspicious until found otherwise, Dr. Fithian, acting with the Federal officer quarantined the steamship Kirby Banks which arrived July 25th, for twenty-four hours until the case of a seaman suffering from chronic diarrhoea could be investigated. On receipt of a negative bacteriological report the steamship was allowed to dock and permit given to land cargo and discharge crew.

The health officer of the port was notified that Seaman Jose Montenegro of the steamship Kirby Banks had died September 6th, while the steamer was at dock at Maurer, N. J. A post-mortem examination was made and the cause of death found to be chronic malaria. Permission was then given to proceed with the discharge of cargo.

The occurrence of cases of cholera during the summer on vessels coming into the port of New York show the necessity of maintaining rigid supervision of all vessels entering the port of Perth Amboy, and the service rendered thus far has been entirely satisfactory.

CONTAGIOUS DISEASES OF ANIMALS.

During the session of the Legislature of 1911 a law was enacted which changes in marked degree the organization of the State Bovine Tuberculosis Commission and the control of this disease. Under the provisions of the act the president of the State Board of Agriculture appoints a Commission on Tuberculosis Among The powers conferred by the act include the inspection of suspected animals, and when it becomes necessary on account of the existence of a case of contagious disease in an animal to destroy the animal, a valuation may be placed on the animal and three-quarters of the valuation is paid to the owner. mission is authorized to issue certificates to owners of animals which upon examination are in good health and condition. Many complaints have been made by buyers of dairy cattle that animals coming from other states, and certified as free from tuberculosis, have upon examination been condemned as having the disease. The annual loss due to the destruction of these animals, and the exposure of healthy animals in the State to the disease, which resulted from this apparent carelessness on the part of persons residing outside of the State, was considerable. The new law gives the power to require certificates of imported animals and to retest suspected animals, and all imported animals are to be inspected by a representative of the Commission. Cattle not imported in accordance with the law may be quarantined. It is apparent that the supervision over tuberculosis in cattle is placed entirely in the care of the Tuberculosis Commission, and the only action taken by the State Board of Health when cases of this disease are reported The title of the act, however, is to refer them to the Commission. which reads in part as follows, "An act concerning contagious and infectious diseases among cattle," would indicate that diseases other than tuberculosis, such as anthrax, blackleg, &c., are to be under the supervision of the Commission. A reference to section 2, paragraph 5, of the act would indicate that the intention of the law is that its provisions should apply only to dairy animals, as these are specifically mentioned. The supervision over diseases of cattle, other than tuberculosis, is therefore placed in charge of Only seven cases of tuberculosis in the State Board of Health. cattle were reported to the State Board of Health during the year, and in each instance the case was referred to the Tuberculosis Commission.

Blackleg.—This disease, which appeared for several years in Sussex county, is apparently under control. Three cases of the disease were reported during the year and prompt measures were adopted to limit its spread. Free vaccination of animals on infected meadows or that had been otherwise exposed to the infection was offered to owners. As this offer has been made from year to year and many cattle owners have accepted the protective inoculation of their cattle, we believe that the disease is now under control, and if each year before cattle are turned out on the meadows the protective vaccination of the cattle is continued no further cases should be reported.

Cowpox.—A herd of dairy cattle in Kearny, Hudson county, were affected with this disease. The disease was not recognized by the owner of the cattle, and when the attention of the local board of health was directed to the condition of the cattle nearly all the affected animals were recovering. The condition of the udders and teats of the cows indicated clearly the nature of the disease and the cows were quarantined. Twenty-three cows contracted the disease. The owner of the dairy decided to discontinue the dairy and purchase milk from other milkmen.

Rabies.—This disease has shown an increase during the year, and a total of seventeen cases have been reported. This, however, does not cover all cases which have occurred, as in the laboratory of hygiene of the Board out of the sixty-six specimens from animals, suspected of having rabies, which were examined during the year, forty were positive and twenty-six negative. The laboratory offers every facility for the examination of suspected animals, and the State Board of Health has an arrangement with the health authorities in New York City by which persons bitten by dogs suspected of having rabies may, upon application through the local board of health or the attending physician, receive the Pasteur treatment at an expense of twenty-five dollars. With the apparent tendency of the disease to spread throughout the State more stringent and effective laws should be enacted. We believe the law in operation in New York State, which gives full power to the State Bureau of Animal Industry to deal with the disease, is an improvement on the law of our State, in which the responsibility is divided between local governing bodies and local boards of health.

Glanders.—The major portion of cases of glanders which are reported each year occur in Essex and Hudson counties. nearness of these counties to New York and Brooklyn, the large number of horses which pass between these points, and the fact that the disease constantly exists leads to many exposures to the Every effort has been made to discover and condemn all animals having glanders in these counties, but until provision is made or a constant inspection of all horses crossing the ferries between New York and Jersey, the disease will continue to be a cause of financial loss to horse owners. The total number of cases reported during the year was 106, and the distribution of the cases was as follows: Bergen county, 2 cases; Essex county, 65 cases; Hudson county, 22 cases; Mercer county, 2 cases; Middlesex county, 5 cases; Monmouth county, 2 cases; Morris county, 1 case; Passaic county, 3 cases; Somerset county, 1 case; Sussex county, 1 case, and Union county, 2 cases.

Several cases of hog cholera were reported in Salem county, and a veterinarian representing the State Board of Health met with the farmers in that section directing them as to the use of protective serum for the protection of well animals and as to proper isolation of sick animals. Cases of mange were reported in Essex, Morris and Sussex counties, the total number of cases being fourteen. Of this number ten cases occurred in Sussex county. The action of the Board in dealing with this disease consisted in the instruction of owners as to the proper treatment of diseased animals, and in directing local boards of health to require the isolation of infected animals and the disinfection of infected prem-A review of the cases of contagious diseases of animals occurring in our State during the past year shows that intelligent supervision of these cases, coupled with a desire on the part of animal owners to adopt preventive measures, is resulting in lessening the total number of cases.

EXAMINATION OF HEALTH OFFICERS AND SANITARY INSPECTORS.

There is no problem connected with the administration of health laws having a more direct bearing on the establishment and maintenance of healthful conditions in our State than that of the selection of efficient health officers and sanitary inspectors. The laws of our State creating boards of health in the various sanitary districts make the appointment by local boards of health of health officers and inspectors obligatory. From the passage of the act of 1887 containing this requirement to the adoption of the law requiring all health officers and sanitary inspectors to secure a license from the State Board of Health, these employes of local boards of health were, in a majority of instances, chosen because they represented the dominating political party, and the appointment was made as a reward for political service without regard to the training or suitability of the person for the work.

There are in New Jersey 474 sanitary districts which are required by law to have organized boards of health. Of this number at least 250 are townships. In these townships the members of the township committee constitute the boards of health. majority of the townships are located in rural districts, and the persons selected to serve as members of the township committee are chosen on account of knowledge of the management of the business affairs of the township, and the reliance of the voters of the township upon their honesty and good judgment. No qualifications as to the administration of the health laws of the State and the protection of the lives and health of the inhabitants is considered. That unqualified persons should be entrusted to deal with the many great and serious problems affecting health is illogical and unreasonable. Health officers and inspectors selected by many boards of health have of necessity been untrained men who were totally unfit for such service.

What has been said of township committees acting as local boards of health is not intended in any way as a reflection upon the members, as many of the township boards of health have been active and efficient and co-operated with the State Board of Health in dealing with epidemics and the abatement of nuisances. With the intention of securing trained and qualified men to act as health officers the law of 1903 was passed. In the months of June and December of each year examinations have been held, and during the period from June, 1903, to October, 1911, 536 applicants have been examined, of which number 88 secured licenses to act as health officers, 110 as sanitary inspectors of the first class, 8 as sanitary inspectors of the second class, and 7 as sanitary inspectors of the third class. The third class inspectors are only eligible for appointment in townships. In addition to the above men-

tioned, 7 meat inspectors and 89 plumbing inspectors have been examined, and licenses have been issued to 4 meat inspectors and 55 plumbing inspectors. It has been the plan of the examining board to grade the examinations so that the applicant for license as health officer in the larger cities should be more fully tested as to knowledge and efficiency than those desiring to serve as inspectors in rural districts. When comparison is made of the number of licenses issued with the number of boards of health in the State it would appear that only a small number of districts were provided with licensed health officers and inspectors. This, however, is not the fact, as the act requiring the licensing of health officers and sanitary inspectors provided for the retention of all health officers and inspectors serving at the time of the passage of the act without requiring the taking of examinations. Many inspectors are now serving local boards of health who were exempted from examination by the law.

The applicants for licenses were for several years made up of men from all walks of life, many of them having the impression that no knowledge was required and that the examination was merely a matter of form. After several examinations had been held the rejection of such large numbers of candidates led to an entirely different view, and gradually the majority of applicants were persons who were graduates of high schools, colleges or technical schools. While the demand for trained inspectors is not as great as it should be and the pay for the service of such men is for the most part entirely inadequate, we believe that by requiring the licensing of health officers the standards of efficiency have been raised and the public educated to such a degree as to demand of local boards of health the appointment of men who are qualified to fill the positions for which they are selected. A list of persons who have successfully passed the examinations provided for in the act of 1903 will be found in the later pages of the report.

Vital Statistics

POPULATION.

The figures presented in the following table, showing the population of New Jersey, are taken from the official reports of the Bureau of the Census, Washington, D. C. This table also shows the population taken from the Government and State reports showing the official census by five year periods from 1880 to 1910, inclusive.

The tables found in the report for the present year will therefore show the marriage, birth and death rates figured according to the official reports showing the correct population.

TABLE 1.—POPULATION OF THE COUNTIES OF NEW JERSEY AND OF MUNICIPALITIES HAVING 5,000 INHABITANTS OR OVER FOR THE CENSUS YEARS 1880, 1885, 1890, 1895, 1900, 1905 AND 1910.

=======================================	=			1			
	1880.	1885.	1890.	1895.	1900.	1905.	1910.
Atlantic County	18,704	22,856	28,836	84,750	46,402	59,862 37,593	71,894
Atlantic City	5,477	7,942	13,055 47,226	18,829	27,838	37,593	46,150
Frelewood	30,780	89,000	47,220	65,251	78,441 6,253	100,003 7,922	138,002 9,924
Gartield	·				0,200	5.092	10,213
Hackensack			6,004	7,282	9,448	11,098	14,050
Rutherford	ļ					5,218	7,045
Burnington County	1 00.400	07.000	1 00,020	59,117	58,241	62,012	66,565
Bordentown Burlington	5,884 7,287	5,857 7,690	5,090 7,264	5,176 7,844	4,110	4, 073 8,038	4,250 8,336
Camdan County	62,942	76,685		100,104	7, 8 92 107,648	121,555	142,029
Camden County Camden City Gloucester City	41,659		58,313	68 467	75,935	83,363	94,538
Gloucester City	5,847	5,966	6,564	6,225	6,840	8,055	9,462
Cape May County	9,765	10,744	11,268	12,855	13,201	17,390	19,745
Cumberland County	87,687	41,982		49,815	51,198	52,110	55,158
Bridgeton	8,722	10,065		13,292	13,913	13,624	14,209
Millville	7,660 189,929	8,824 213,764	10,002 256,098	10,466 312,000	10,583 859,053	11,884 409,928	12,451 512,886
Bloomfield	109,329	213,704	7,708	8,093	9,668	11,668	15,070
Kast Orange			13,282	17,927	21,506	25,175	34,371
East Orange Irvington Montclair			,	3,388	5,255	7,180	11,877
Montclair		l 	8,656	11,753	13.962	16,370	21,550
Newark	186,508	152,988	181,830	215,806	246,070	283 ,289	347,469
Orange	13,207	15,231		22,792	24,141	26,101	29,630
West Orange	25,886	07.409	4,358	5,854 81,191	6,889 31.90 5	7,872 34,477	10,980 37,368
Hudeon County	187,944		28,649 275,126		386.048	449,879	537,231
Bayonne	9,872	13,080	19,083	19,856	32,722	42,262	55,545
Harrison	6,898		8,338	9,672	10,596	12,823	14,498
Hoboken	80,999	87,721	48,648	54,088	59,364	65,468	70,324
Jersey City	120,722	153,513	163,003	182,713	206,488	232,699	267,779
Kearny		l		10,487	10,896	18,601	18,659
Wort Hobokon	5,849	8,898	10,613 11,665		15,187 28,094	17,005 29,082	21,023
West New York			11,000	18,296	5,267	7,196	85,403 13,560
Harrison Hoboken Jersey City Kearny Town of Union West Hoboken West New York Hunterdon County Lambertville Mercer County	38.570	37,420	35,355	35,334	34,507	33,258	33 ,569
Lambertville			·			5,016	4,657
Mercer County Chambersburg Princeton	58,061		79,978	85,538	95,365	110,516	125,657
Chambersburg	5,487		,				
Princeton Trenton Middlesex County New Brunswick Perth Amboy South Amboy Monmouth County Asbury Park Long Branch Red Bank Morris County	20.010	04 906	ET AEO	60 510	79 907	6,029	5,186
Middlesex County	52 286	34,386 56,180	57,458 61,754	62,518 70,058	78,307 79,762	84,180 97,036	96,815 114,426
New Brunswick	17,166	18,258	19,603	19,910	20,006	23,133	23,388
Perth Amboy		20,200	9,512	18,030	20,006 17,699	25.895	32,121
South Amboy			4,830	5,571	6,349	6,258	7,007 94,734
Monmouth County	55,588	62,324	69,128	75,548	82,057	87,919	
Asbury Park	••••••		7 001		0.050	10.100	10,150
Ped Pank		5,140	7,231	7,333 4,888	8,872 5,428	12,183	13,298 7,398
Morris County	50,861	50,675	4,145 54,101	59,536	65,156	6,263 67,934	74,704
Morris County Dover	00,001			l	5.988	6,353	7,468
Morristown	6.837	8,760	8,156	10,290	11,267 19,747	12,146	12,507
Ocean County	14,455 68,860	8,760 15,586	15,974	18,789	19,747	20,880	21,318
Passaic County	68,860	83.374	105,046	133,227	155,202 27,777	175,858	215,902
Passaic City	6,532 51,081		18,028	17,894	27,777	37,837	54,773 125,600
Paterson	24,579	25,378	78,347 25,151	97,344 26,084	105,171 25,530	111,529 26,287	26,999
Salem City	5,056	5,816	5,516		5.811	6,443	6,614
Somerset County	27,162	27,425	28,311	30.447	32,948	36,270	38,820
Somerset County North Plainfield				4,245	5,009	5,616	6,117
Sussex County	23,539	22,401	22,259	22,586	24,134	23,325	26,781
Union County Elizabeth	55,571	61,839	72,467	85,404	99,353	117,211	140.197
Elizabeth	28,229 8,125	32,119		43,834 13,629	52,130 15,369	60,509 18,468	73,409 20,550
Plainfield Rahway	0,120 8 455	8,913 6,861		7,945		8,649	9,337
Rahway Summit	0,400	0,001	1,200	4,450	5,302	6,845	7,500
Westfield	'					5,265	6.420
Warren County	36,589		36,553		37,781	40,403	43,187
Phillipsburg	7.181	8.058	× 644	9 081	10,052	13 352	13,903

COMPARATIVE DEATH RATE OF THE WHITE AND COLORED INHAB-ITANTS IN NEW JERSEY.

The following table shows the estimated population, the total death-rate, and the death-rate among the white, and the death-rate among the colored inhabitants in New Jersey. It covers a period of ten years and a marked difference is shown in the death rates:

TABLE 2.—SHOWING NUMBER OF WHITE AND COLORED INHABITANTS IN NEW JERSEY, WITH DEATH-BATES PER 1,000 POPULATION, FOR TEN YEARS, 1901-1910.

YEARS.	Estimated population (total).	Estimated population (colored).	Total death- rate.	Death- rate, white.	Death- rate, colored.
1901	1,883,669	72,011	16.48	16.65	21.79
1902	1,925,781	74,178	15.91	17.33	21.00
1903	2,016,797	76,3 4 5 ′	15.87	15.44	24.32
1904	2,058,909	78,512	17.14	16.91	22.95
1905	2,144,143	79,485	15.79	15.57	21.59
1906	2,196,238	80,458	16.24	16.02	22.09
1907	2,248,331	81,481	16.63	16.42	22,47
1908	2,300,427	82,404	15.47	15.23	22.04
1909	2,352,522	83,377	15.46	15.29	20.09
1910	2,537,167	89,760	15.57	15.41	19.83

BIRTHS.

The following table shows the number of births, marriages and deaths in New Jersey, for the thirty-two years ending December 31st, 1910. It is interesting to note that during the past ten years there has been a gradual increase in the birth-rate, and under the present laws in regard to reporting births there is no doubt that the time is not far distant when practically all of the births that take place in New Jersey will be reported.

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REPORT OF STATE BOARD OF HEALTH. 40

It is the experience of this department that most of the persons who fail to report births do so through ignorance of the law, and therefore rather than carry on a campaign of prosecutions in such cases it has been the policy to try and educate those negligent in making reports, to the importance of filing a record of every birth. This work has been found difficult because of the employment of midwives among the foreign population, many of whom are unable to read or write the English language, and in such cases we have recommended to the local registrars that they make a periodical canvass of the foreign colonies in their sanitary district, and endeavor to have all unreported births placed on file.

TABLE 3 .- SHOWING POPULATION, NUMBER OF BIRTHS BEPORTED, NUMBER OF MARRIAGES AND NUMBER OF DEATHS IN NEW JERSEY, WITH BIRTH-RATES, MARRIAGE-RATES AND DEATH-RATES FOR THE THIRTY-TWO YEARS ENDING DECEMBER 31, 1910.

	}	BIRT	rhs.	MARRI	AGES.	DEA	rhs.
YEAR.	Population.*	Number of births reported.	Birth- rate per 1,000 popula- tion.	Number of marriages.	Persons married per 1,000 popula- tion.	Number of deaths.	Death- rate per 1,000 popula- tion.
1879		23,116	22.65	7,096	13.91	20,440	20.03
1880	1,130,892	23,680	20.94	7,963	14.08	18,967	16.77
1881	1,160,275	28,484	20.24	8,109	13.98	20,812	17.94
1882	1,189,658	23,108	19.42	8,837	14.86	25, 959	21.82
1883	1,209,048	24,430	20.21	9,166	15.16	28,310	19.28
1884	1,248,224	25,263	20.20	8,968	14.37	21,716	17.40
1885	1,278,038	24,077	18.84	8,989	14.07	23,807	18.63
1886	1,310,431	25,497	19.46	12,851	18.85	22,784	17.35
1887	1,842,829	27,840	20.36	15,416	22.96	24,331	18.12
1888		28,074	20.41	16,025	23.31	27,178	19.76
1889		29,099	20.67	15,726	22.34	26,548	18.86
1890	1,441,017	30,108	20.89	15,564	21.60	28,530	19.80
1891	1,478,784	28,882	19.58	15,805	20.70	28,840	19.50
1892		30,627	20.26	16,082	21.28	32,685	21.62
1893	1,588,799	32,285	20.98	17,178	22.33	80,596	19.88
1894	1,578,378	33,662	21.83	16,245	20.58	30,004	19.09
1895		81,742	18.97	15,878	18.98	80,634	18.81
1896	1,718,548	81,207	18.16	18,370	21.88	30,767	17.90
1897		31,595	17.91	18,171	20.60	29,822	16.90
1898		32, 515	17.96	18,218	14.59	27,337	15.11
1899		29,419	15.84	13,886	14.37	30,999	16.70
1900		32,270	17.18	14.611	15.51	81,474	16.62
1901		84,812	18.08	16,539	17.18	81,739	16,48
1902	1,967,893	35,116	17.84	18,150	18.45	81,819	15.91
1908	2,016,797	87,242	18.47	19,512	19.85	81,820	15.87
1904	2,058,909	38,751	18.82	18,919	18.38	35,298	17.14
1905		39,689	18.51	20,572	19.19	88,864	15.79
1906		42,677	19.43	21,580	19.65	3 5,670	16.24
1907	2,248,831	44,651	19.86	28,649	21.04	37,408	16.63
1908		47,405	20.61	26,155	22.74	85,597	15.47
1909		47,508	20.19	29,724	25.27	36,85 9	15.46
1910	2,537,167	53,942	21.26	27,912	22.00	89,494	15.57

^{*} Estimated except for census years.

Note.—The reports of births are not as complete as are those for marriages and deaths, hence the above table does not represent with accuracy the relation between birth-rates and deathrates.

Note.—The large number of marriages reported during the years 1886-1897 was due to the unrestricted authority contained in the laws for the performance of the marriage ceremony in the case of non-residents, and the marked decrease in the number of marriages which occurred in 1893 was directly consequent upon the enactment of the law requiring a license in cases where both parties are non-residents of the State, and again in 1910, when the law became operative requiring that all persons marrying in New Jersey shall first secure a license.

MARRIAGES.

It was expected that the marriage license law would be the means of decreasing the number of marriages in this State, and the figures showing the marriages for 1910 are 1,812 less than the preceding year. It thus appears that practically 2,000 marriages which would have taken place in New Jersey were prevented because of the marriage license law. Of course it is difficult to approximate how many of these marriages were of the runaway sort, but a fair estimate would place the figures well up into the hundreds, and there is no better argument than that shown by these figures to uphold the license law.

TABLE 4.—SHOWING NUMBER OF MARRIAGES RECORDED IN NEW JERSEY FOR THE THIRTY-TWO YEARS ENDING DECEMBER 31, 1910.

						-			-			-
YE	AR.		1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.
Marriages in N	ew Jers	еу	7,096	7,968	8,109	8,887	9,166	8,968	8,969	12,851	15,416	16,02
Persons marr population		r 1,000	13.91	14.08	18.98	14.86	15.16	15.87	14.07	18.85	22.96	23.3
YE	AR.		1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.
Marriages in N	ew Jerse	ey	15,726	15,564	15,806	16,082	17,178	16,245	15,873	18,870	18,171	13,21
Persons marr population		1,000	22.84	21.60	20.70	21.28	22.88	20.59	18.98	21.88	20.60	14.50
YEAR.	1899.	1900.	1901.	1902.	1908.	1904.	1905.	1906.	1907.	1908.	1909.	1910.
Marriages in New Jersey		14,611	16,589	18,150	19,512	18,919	20,572	21,580	28,649	26,155	29,724	27,91
Persons mar ried per 1,000 population)	15.51	17.23	18.45	19.35	18.38	19.19	19.65	21.04	22.74	25.27	22.00

DEATHS.

There has been practically very little change in the death-rate of New Jersey for the past three years. The total number of deaths for the year ending December 31st, 1910, was 39,494, and the death-rate per 1,000 inhabitants, 15.57.

The statistical data now contained on the death certificates filed in this department is more complete than ever before, especially in reference to the occupation of the deceased, which permits a classification of mortality by occupations, which will be found in another portion of this report.

No doubt the time is not far distant when uniform tables in reference to tabulating deaths will be adopted by all registration states and cities, and after such data has been compiled for a short time the comparative mortality from various diseases in all parts of our nation will be available in like form.

CHART SHOWING DEATH-RATES IN NEW JERSEY, PER 1,000 INHABITANTS FOR THIRTY-TWO YEARS, 1879-1910.

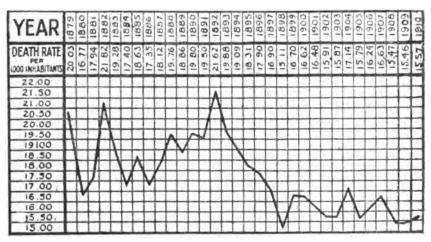


TABLE 5.—DEATHS IN NEW JERSEY, BY AGE PERIODS, FOR THE YEAR ENDING DECEMBER 31, 1910.

-			-	-													-		
							A	iE P	erio	DS.									_
ı								-				-	-		ı		_		Ĉ
Under 1 mo.	Under 1 year.	1 to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	40 to 45	45 to 50	50 to 55	55 to 60	60 to 70	70 to 80	80 to 90	Over 90.	Not stated.	Total number deaths.
2887	5465	8296	908	584	869	1286	1423	1621	1915	1810	1808	2045	2023	4787	4338	2132	298	- 4	39.491

TABLE 6.—SHOWING NUMBER OF DEATHS IN NEW JERSEY FROM CERTAIN CLASSIFIED DISEASES FOR THIRTY-TWO YEARS, 1879-1910.

<u> </u>										
DISEASES.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.
Acute lung diseases Consumption, M Consumption, F Diarrhoeal diseases of	2,160 2,788	1,988 2,714	2,208 2,989	2,752 1,696 1,779	2,756 1,527 1,594	2,174 1,557 1,658	2,566 1,673 1,647	2, 3 00 1,651 1,5 5 4	2,557 1,910 1,748	2,922 1,723 1,635
children	1,849	2,166	2,305	2,792	2, 6 56	2,462	2,845	2,664	2,694	3,508
diseases	1,314	1,347	1,502	1,521	1,562	1,664	1,895	1,932	1,966	2,095
eases of children Diseases of the heart		1,688	1,642	1,999	1,683	1,598	1,791	1,774	1,886	1,971
and circulation Diphtheria and croup Digestive and intesti-	972 1,100	982 873	1,213 1,128	1,181 1,472	1,285 1,146	1,324 1,027	1,503 1,496	1,506 1,303	1,530 1,527	1,691 2,036
nal diseases	1.041	1,005	1,080	740	923	1,075	1,140	1,213	1,242	1,476
easesViolent deaths	558	516	608	765 793	759 907	892	9 3 9 857	926 997	87 3 1, 0 51	1,020 1,320
Cancer Typhoid fever	324	425 373	451 574	402 884	461 564	484 640	498 642	546 545	574 5 22	612 620
Scarlet fever Puerperal	627 194 277	573 244 1 3 0	499 303	1,806 244	853 198 189	547 221,	646 268 181	222 257 274	255 263 181	57 4 271 161
Whooping cough Malarial fever Measles	268	293 87	110 431 70	253 379 206	290 131	116 230 189	209 135	243 88	217 296	264 74
Erysipelas	137 76	109, 64	124 89	94 52	90 33	80 62	74 36	79 68	96 132	128 142
Small-pox		15	254	3 67	54	7		4	5	5
Total deaths per year	15,797	15,542	17,589	25,910	28,810	21,716	28,807	22,784	24,331	27,173

DISEASES.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.
Acute lung diseases	2,862	3,804	4,101	8,187	3,974	4,183	4,597	4,146	4,039	3,414
Consumption, M Consumption, F Diarrhoeal diseases of	1,772 1,677	1,903 1,767	1,849 1,607	1,851 1,724	1,790 1,637	1,831 1,602	1,860 1, 6 82	1,786 1,572	1,765 1, 4 72	1,772 1,453
children	3,877	3,527	8,191	4,048	8,981	3,893	8,746	3,807	3,450	2,958
diseases	1,991	2,308	2,333	2,457	2,611	2 413	2,626	2,610	2,582	2,700
eases of children Diseases of the heart	1,923	2,032	2,029	2,242	2,072	2,083	1,925	2,018	1,809	1,642
and circulation Diphtheria and croup	1,574	1,945 1,575	1,960 1,737	2,183 1,776	2,179 1,677	2,112 1,294	2,268 1,464	2,412 1,587	2,475 1,382	2,276 95 0
Digestive and intesti-	1,450	1,521	1,578	1,625	1,753	1,565	1,589	1,622	1,572	1,484
Renal and cystic dis- eases	1,056 1,077	1,149 1,285	1,200 1,365	1,444 1,427	1,441 1,538	1,447 1,500	1,528 1,469	1,584 1,426	1,752 1,685	1,694 1,451
Cancer	579 724	640 782	642 695	688 628	728 506	731 485	770 568	811 577	857 478	852 450
Scarlet fever Puerperal	588 254	209 250	288 296	1,008 282	445 282	272 293	264 294	183° 283	203 278	201 264
Whooping cough Malarial fever		371 195	299 180	168 198	237 148	328 162	272 144	275 119	321 132	155 #2
MeaslesErysipelas	114	174 81	250 85	197 94	78 74,	257 97	95 74	390 69	156 68	195 58 55
Acute rheumatism Small-pox	117	106	76	100 38	102 ⁻ 43	91 11	82 23	59, 2	69	
Total deaths per year	26,548	28,530	28,810	32,685	30,596,	30,004	30,634	30,767	29,822	27,337

44 REPORT OF STATE BOARD OF HEALTH.

TABLE 6.—SHOWING NUMBER OF DEATHS IN NEW JEBSEY FROM CERTAIN CLASSIFIED DISEASES FOR THIRTY-TWO YEARS, 1879–1910—Continued.

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DINEASES.	1899.	1900.	1901.	1902.	1908.	1904	1905.	1906.	1907.	1908.	19 0 9.	1910.
Acute lung diseases	4,322			4,236	4,265	5,809	4,445	5,230	5,515	4,787	5,363	5,330
Consumption, M	1,956	1,787	3,257	8,015	8,380	8,670	3 597	3,654	9 740	8.6 16	3.608	3.877
Consumption, F	1,628	1,727) .		!							
Pneumonia			2,589	2,421	2,628	3,486	2,764	8,117	3,307	2,773	3,094	8,156
Diarrhoeal diseases of			1 005	1.000								
children	8,568	8,010	1,895	1,878	1,603	2,423	2,290	2,397	2,492	2,575	2,369	2 929
Adult brain and spinal diseases	0.040	0.040	0.000	0.707	0.000	9.050	0.040	0.010	0 400	0.040	0.045	
Brain and nervous dis-	2,842	2,946	2,836	2,787	2,880	3,053	3,942	3,219	8,402	3,246	3,245	3,679
eases of children	1,950	1,767	2.012	1 000	1 705	1,986	2,095	1,717	1.688	1 400	1.452	818
Diseases of the heart and		1,707	2,012	1,000	1,790	1,900	2,090	1,717	1,000	1,400	1,402	010
circulation	2,781	2.852	2,772	3,066	3,166	3,301	3,316	3,460	3,911	8.841	4,023	4.438
Diphtheria and croup		927	683		748	918		673	632	535		
Digestive and intestinal		32.			140	310	000	0.0	002		010	1 120,
diseases	1,566	1,700	2,221	2.042	2.060	2,279	2,188	2.245	2,459	2.805	2.258	2.645
Renal and cystic diseases,			2,043				2,487		2.803	2,640		
Violent deaths	1,724	1,724	2,153		2,010			2.813		2,366	2,479	2,528
Cancer			1,042					1.389			1,668	
Typhoid fever	486			428	388	384	360	408	464	367	301	392
Scarlet fever	187		179	217	29 9		164		286	39 6		229
Puerperal		288	207	225	279		. 238	322	289	329	811	377
Whooping cough		306		281	245			388	245	237		
Malarial fever		84	50	36	40	47	21	36	29	30	25	
Measles					41			203	144		242	186
Erysipelas	88	111		69	86			94	106	96	57	112
Acute rheumatism	73	78	116	94	71		101	109	87	97		54
Small-pox	· · · · · · · · · · · · · · · · · · ·	5	142	432	16	24	1	1	1		2	•••••
						·						

Total deaths per year... 30,999 31,474 31,789 31,319 31,820 35,298 33,864 35,670 37,408 35,597 36,859 39,494

TABLE 7.—DEATHS IN NEW JERSEY, PER 10,000 POPULATION, FROM CERTAIN CLASSIFIED CAUSES, FOR THIRTY-TWO YEARS.

- E			-							-
CAUSES OF DEATH.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.
Acute lung diseases	21.16	17.57	17.30	23.13	22.79	17.41	20.07	17.55	19.04	21.74
Consumption		23.99	25.76	29.21			25.97	24.25	27.20	24.41
Diarrhœal diseases of children		19.1 5	19.48	15.06	21.96		22.25	20.32	20.06	25.50
Adult brain and spinal diseases	12.87	11.91	12.94	12.78	12.91	13.38	14.82	14.74	13.64	15.23
Brain and nervous diseases of						1 1			'	
children	16.13	14.48	14.15	16.80	13.92	12.80	14.01	13.53	14.04	14.33
Diseases of heart and circula-			,	'		l i		1	,	
tion	9.52	8.68	10.45	9.92			11.75			
Diphtheria and croup	10.86	7.71	9.72	12.37						14.80
Digestive and intestinal diseases,		8.88	9.30	6.22	7.63			9.25	9.24	10.73
Renal and cystic diseases		4.56	5.24	6.43	6.27	7.14			6.50	7.41
Violent deaths				6.60	7.50		6.59		7.82	9.59
Cancer	3.70		3.88	3.37	3.81		3.89	4.15	4.21	4.45
Typhoid fever	3.17	3.29	4.94	7.43	4.66		5. 0 2	4.15	3.83	4.50
Scarlet fever	6.14		4.30	10.09	7.05		5.05	1.69	1,89	4.17
Puerperal	1.90	2.15	2.61	2.05					1.95	1.97
Whooping cough	2.71	1.14	1.02	2.12			.41		1.84	1.17
Maianai iever	2.62	2.59	3.74	8.10					1.61	1.91
Measles			.60	.78			1.05		2.20	.58
Erysipelas	1.34	.96	1.06	.79		.64	.57	.60	.71	.93
Acute rheumatism		.56	.76	.43	.27	.49	.28	.51	.98	.10
Small-pox		.13	2.18	_ 3.0∺	.44	.56	.01	.03	.03	.03

TABLE 7.—DEATHS IN NEW JERSEY, PER 10,000 POPULATION, FROM CERTAIN CLASSIFIED CAUSES, FOR THIRTY-TWO YEARS—Continued.

CAUSES OF DEATH.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.
Acute lung diseases	20.83				25.82					
Consumption	24.50				22.28					
Diarrhœal diseases of children	23.99	24.47	21.57	26.74	25.87	24.66	22.39	22.15	19.55	16.34
Adult brain and spinal diseases	14.14	16.01	15.77	16.25	16.96	15.28	15.69	15.18	14.63	14.91
Brain and nervous diseases of					1					
children	18.66	14.10	13.72	14.83	13.46	12.11	11.50	11.74	10.25	9.06
Diseases of heart and circula-		-						i		
tion	12.68	18.49	13.25	14.41	14.16	12.74	18.55	14.08	14.52	12.62
Diphtheria and croup	11.18	10.92	11.74	11,74	10.89	8.19	8.75	10.22	7.83	5.24
Digestive and intestinal diseases,	10.30	10.55	10.63	10.74	11.39	9.92	9.49	9.48	8.91	8.19
Renal and cystic diseases	7.50	7.97	8.11		9.86	9.16	9.10			9.85
Violent deaths	7.65	8.57	9.23	9.48	9.99	9.50	8.78			8.01
Cancer	4.11	4.41	4.34			4.63	4.60	4.71	4.83	
Typhoid fever	5.14	5.42	4.69	4.15	3.28	3.07	3.39	3.85	2.70	2.48
Scarlet fever	3.78	1.45	1.94	6.66	2.89	1.72	1.57			1.11
Puerperal		1.73				1.85	1.75			1.45
Whooping cough		2.57	2.07	1.07	1.54	2.07		1.60		.85
Malarial fevor	1.44	1.35		1.30	.96	1.02	.85		1.74	
M easles	.83	1.20		1.30		1.62	.56		.88	1.47
Erysipelas	.80.	.56		.62		.61	.41		38	.32
Acute rheumatism	.83	.78			.66	.57	.49		.39	
Small-pox				.25	.27	.06	.13			

-	_	=						-=			·	_
CAUSES OF DEATH.	1899.	1900.	1901.	1902.	1908.	1904.	1905.	1906.	1907.	1908.	1909.	1910.
Acute lung diseases		25.21					20.75		24.50		22.80	
Consumption Diarrhosal diseases of chil-	19.31	18.48	16.91	15.82	16.76	17.88	16.78	16.64	16.67	15.72	15.34	15.26
dren		15.83	9.84	9.54	7.95	11.77	10.68	10.91	11.08	11.19	10.07	11.54
eases	15.81	15.49	16.20	16.40	16.60	16.51	13.72	14.62	15.18	14.11	18.79	14.50
of children Diseases of heart and circu-	10.58	9.29	11.26	9.72	9.95	10.68	9.77	7.82	7.51	6.47	6.17	3. 2 2
lation	14.72								17.89			
Diphtheria and croup Pneumonia *		4.87	3.55 18.18					3.06 14.19	2.81 14.76		2.59 18.15	2.87 12.44
Digestive and intestinal diseases	8.38	9.47	11.42			11.08		10.22				
Renal and cystic diseases Violent deaths		10.90 9.00	10.45 11.20			11.47 11.56		11.58 10.58		11.48 10.29		11.98 9.96
CancerTyphoid fever	5.10 2.62		5.42 1.83	5.24 2.17	$\frac{5.61}{1.92}$	5.46 1.87	5.98 1.68	6.82 1.86	6.52 2.06		7.07 1.28	7.24 1.55
Scarlet fever Puerperal	1.01	1.16 1.51	.98 1.70	1.10 1.14	1.48 1.38	2.02 1.07	.76 1.11	.88 1.47			1.44 1.32	.90 1.49
Whooping cough	1.51	1.61	.82 .26	1.48	1.21	.60	1.88	1.77	1.09	1.03	1.21	1.58
Measles	.52	1.21	.40	1.04	.20	.87	.46	.92	.64	.82	1.03	.78
Erysipelas	.39	.5x .38	.37 .60	.35 .43	.43 .35		.42 .47	.43 .50	.47 . 8 9	.42 .42	.29	.44 .21
Small-pox	· <u></u>		74	2.20	.07	.01		·····	······	[. 	.01	_::

^{*} Deaths under this classification were not separately recorded until 1901.

TABLE 8.—SHOWING DEATH-RATE, PER 1,000 POPULATION, IN THE CITIES OF NEW JERSEY HAVING OVER 5,000 POPULATION, FOR THIRTY-TWO YEARS, 1879–1910.

									-	1
NAMES OF CITIES.	1879.	1880.	1881.	1882.	1883	1884.	1885.	1886.	1887.	1988.
Atlantic City* Bordentown			24.46	81.76	26.29		23.54	21.03		29.34
Bordentown	16.82	16.89					15.88		13.32	16.56
Burlington			18.37		18.51			21.46		21.46
('amden	18.88	19.27	22.90	24.55	20.01		18.30			22.79
Gloucester	14.10	15.70	20.19		21.88			16.59		23.13
Bridgeton	16.72	17.75	19.72	23.85	15.48			11.92		17.69
Millville		22.71	22.71		18.27	18.54		15.75		21.65
Newark	20.26	18.71	21.12		25.49	24.70				27.02
Orange Bayonne Harrison	19.88	16.35	18.02	25.44	21.81	22.03		19.95		
Bayonne	20.73	10.04	16.43	26.89	20.91					26.38
Harrison	07.01	23.41	20.00 25.82	24.61 31.42	22.18 25.90			26.01	26.74	28.50
Hoboken	27.01	20.71	20.82	31.42	25.74		22.35 22.42			28.13
Jersey City	20.04	20.90	23.01	36.93				22.02		$\frac{25.93}{24.77}$
Town of Union	000	20.04	10.00	30.50	20.79		17.48	15.12		19.51
Nom Demonstate	10.50	15 66	10.09	20.00	20.79	00 10	10.40	10.12	10.77	19.31
Double Ambou	19.50	19.00	10.01	22.10	20.79	20.10	10.40	19.00	19.17	27.41
New Brunswick Perth Amboy Long Branch*					•••••			10 94	14.00	20.04
Morristown	16 40	10 71	15 04	17 70	90 00	20. 77	14 61	19 70	13.58	18.95
Passaic		21 78	19.44	22.82	20.82	23.58	16.61	21.02	22.82	24.38
Paterson					27.72	28.33		17.38	22.83	27.17
Salem	20.01	15.00	14.63	19.58	23.14	15.48		22.30	16.13	18.85
Elizabeth	18 20	15.58	19.97	21.68	24.80		21.70	18.90		23.28
Plainfield	18 01	12.06	16.00	18.58.	19.81		15.82	17.17	17.17	22.31
Rahway		17.97	16.11	28.85	20.29	17.19		14.58	16.91	20.41
Phillipphire	14 08		15.87				18.37			13.28
Phillipsburg	_ **.00		10.01	20.00	20.40	10.10		17.10	10.49	10.20

_ :	-							-		
NAMES OF CITIES.	1889.	1890.	1891.	1892.	1893.	18 94 .	1895.	1896.	1897.	1898.
Atlantic City*	26.93	21.01	20.46	20.19	16.47	18.38 13.50	19.20 15.52	18.78 11.54	20.45 14.49	
Bordentown	15.02	18 43	29.79	90.72	17 44	14.91			14.78	
Burlington					18.82		18.87			14.28
Camden	18 73	23 15	23 69	25.37	22.06	23.35		19.97		17.82
Gloucester	21 82	18 89	21 85	28.38				28.13		18.31
Bridgeton	14 81	17.70	19 50	16.55	17.62	16 38	16.85	14.41		13.10
BridgetonMillville	19 49	19.48	16.51	16.62	15.28	18 79	17.01	15 04		12.38
Montelair Newark Orange Bayonne	10.10	10.10	20.02	10.02	-00	-0		13.90		11.76
Nowark	25.59	27 26	23 69	29 17	24 67	22 68	21 52	20.79		16.65
Orange	22 85	24 50	20.29	23 31	20.38	19 37	18.69	19 89	16.50	19.08
Rayonne	24.24	20.37	20.37	21.11	19.74	19.71	22.51	20.52		25.00
Harrison	26.65	27.67	31.70	28.27	26.50	22.17	25.12	25.45	18.61	
Hoboken	25.57	25.62	25.41	26.97						18.06
Jersey City	22.66	25.96	26.60		26.67			23.61		19.16
Town of Union	19.74	22.42				18.97		15.86		18.58
Trenton	14.94	17.35	15.51	19.75		14.14			16.44	15.45
New Brunswick	20.18	17.71	17.51	24.60					19.33	14.73
Perth Amboy	24.76	17.41	23.05	22.61	19.71	18.47	18.96	17.84	17.11	14.93
South Amboy							,		17.81	13.14
South AmboyLong Branch*	12.41	14.66	12.16	12.40	10.85	9.88	14.18.	12.51	14.11	18.13
Dover									19.12	15.73
Morristown	24.32	19.91.	16.55	20.80	18.55	19.04	18.56	18.85	16.16	17.38
Passaic	24.86	16.81	23.77	22.27		20.07	21.57	22.26		19.84
Paterson.	23.02	21.87	22.95	22.61			18.25	19.22	18.71	15.89
Salem	18.18	17.60	16.86	19.58		20.49			16.65	18.30
Elizabeth						18.95			17.16	15.50
Plainfield	16.97	16.89	16.87	17.04	19.21		17.39	18.37		14.16
Rahway			17.61		23.87	18.76		17.13		
Phillipsburg			15.75		14.29			14.70		
			• • • •						-	

^{*}The death-rate in summer resorts is calculated on the basis of the resident population, whereas the actual population is often several times larger, and on account of this floating population and the large number of invalids included in it, the death-rate is not a criterion of health conditions.

TABLE S.—SHOWING DEATH-RATE, PER 1,000 POPULATION, IN THE CITIES OF NEW JERSEY HAVING OVER 5,000 POPULATION. FOR THIRTY-TWO YEARS, 1879-1910—Continued.

-	-		-	- -		- .	= -	-	=•	=	27 L	
NAMES OF CITIES.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	1909.	1910.
Atlantic City*	19.08	17 85	10.85	16.28	15.88	14.92	16.79	17.95	16.85	15 10	14 96	17 83
Englewood	17.57	17.75	15.74							14.12		
Hackensack	14.94	13.66	17.52	18.34	16.39	13.78	17.48	16.89	18.54	14.06	15.38	16.23
Rutherford										۱	9.04	9.79
Bordentown	17.35	19.46	16.55	17.27	18.73	19.71	13.26	17.19	15.52	17.53	13.60	18.82
Burlington	16.87	24.76	19.75	21.28	22.46	22.82	16.67	17.87	18.68	18.68		18.00
Camden	19.35	14.11	17.56				16.17		17.44	16.75	16.57	17.21
Gloucester	19.50	19.85	11.27	21.03	17.89	17.32	18.37	18.44	19.55	19.58	17.95	15.54
Bridgeton	13.74	14.38					14.09		17.69	13.38	15.68	15.20
Millville						16.67	13.72			14.77	11.68	11.97
Bloomfield	·		14.55	18.50			11.40				11.46	11.15
East Orange		10.97	9.71	10.94	9.72		10.72					10.77
Irvington			9.24	14.66	12.86	10.67	12.53			11.88		11.96
Montelair	13.00	15.11	16.87	14.48	17.42	20.28	18.02			13.19		15.03
Newark	19.40	19.60	19.14	18.71	18.47	19.61	17.45	19.08				16.65
Orange	18.19	20.63	17.45	20.26	20.40	21.85	20.46	20.34		19.25		
West Orange			18.25	10.27	10.52						13.40	
Bayonne	25.59	17.39	16.38	15.32	18.44	16.60	15.76	17.18	16.56	15.05	13.59	
Harrison	19.18	22.87	21.24	19.33	18.63	16.69						16.35
Hoboken	19.91	23.01	18.67	18.80	17.70	22.33	21.11		22.91			18.90
Jersey City	19.78	20.34	19.12	18.65	18.82	20.85	18.88	19.36				16.46
Kearny				17.45	17.68	23.70	17.20	17.54				14.79
Town of Union	11.63	14.16	11.25	16.39	16.07	17.76	12.91	16.52				11.99
West Hoboken	1			12.95	11.76	14.48	14.37	12.71	11.79	12.27		10.90
West New York				14.85	11.98	16.14	15.42	13.72	17.07	16.88	17.39	
Lambertville Princeton			•••••			••••••			14.71	9.78		12.24
Princeton							·		9.16	14.23	7.89	
Trenton	17.71	16.42	16.35	17.19	18.30	18.09	17.63	17.28	18.06	17.92		
New Brunswick	16.04	21.29	18.18	20.00	19.48	22.16	19,66	17.76	19.19	18.15	19.00	
Perth Amboy	16.16	14.46	16.58	14.82	12.70	14.39	12.20	12.89				15.78
South Amboy	$_{ }$ 12.65	13.86	16.14	19.52	15.68	16.06	19.97	21.89	16.86			15.41
Asbury Parks						~~~~~			14.58	16.35	17.08	
Long Branch*	17.51	18.15	24.07	21.50	20.21	22.37					17.66	
Red Bank			16.44	12.58	12.52	15.87				12.57		
Dover	14.34	13.46	16.01	15.39	18.87	14.09	10.00	11.19				
Morristown Passaic	19.18	16.38	18.50	10.64	17.90	18.84	20.42	21.10	22.49		19.77	
Passaic	23.64	20.99	18.22	17.74	20.03	18.52	18.29	16.89		17.37		
Paterson	19.65	18.70	17.58	16.37	15.28	17.84	16.51					14.73
Salem North Plainfield	15.80	20.13	14.11	10.00	17.21	20.31	16.92		16.28		13.10	
North Plainneid	17.05	17 60	12.40	12.44	10.17	11.07	17.27		14.85			12.75
Elizabeth	17.20	17.69	10.17	15.80	16.55	18.72	15.63 15.70	17.04	18.70	16.43	16.98	
Plainfield	10.72											
Rahway	10.07	10.00	14.87	11.02	10.00	19.19	18.64			14.65		
Sammit					14.28	15.08	12.27			13.64		
Westfield Phillipsburg	10.00	10 10	14 04	15.01	19 44	15 50	10.00	11 40	14.09	13.56 9.85	11.47	12.15 15.32
rninipsourk	19.08	12.18	14.34	10.04	10.44		10.03	11.49	14.39		- a.00	10.02

^{*}The death-rate in summer resorts is calculated on the basis of the resident population, whereas the actual population is often several times larger, and on account of this floating population and the large number of invalids included in it, the death-rate is not a criterion of health conditions.

CHART SHOWING RELATIVE MORTALITY IN CERTAIN CITIES OF NEW JERSEY FOR THE YEAR ENDING DECEMBER 31, 1910.

East Orange			
West Hoboken	Population, 34,371.	Deaths, 370.	Rate per 1,000, 10.77.
Bloomfield	Population, 35,403.	Deaths, 386.	Rate per 1,000, 10.90.
Millville	Population, 15,070.	Deaths, 168.	Rate per 1,000, 11.15.
Town of Union		Deaths, 149.	Rate per 1,000, 11.97.
Paterson	Population, 21,023.	Deaths, 252.	Rate per 1.000, 11.99.
Kearny	Population, 125,600.	Deaths, 1,850.	Rate per 1,000, 14.73.
Bayonne	Population, 18,659.	Deaths, 276.	Rate per 1,000, 14.79.
Passaic	Population, 55,545.	Deaths, 827.	Rate per 1,000, 14.89.
Montclair	l'opulation, 54,773.	Deaths, 819.	Rate per 1,000, 14.95.
Bridgeton	Population, 21,550.	Deaths, 324.	Rate per 1,000, 15.03.
	Population, 14,209.	Deaths, 216.	Rate per 1,000, 15.20.
Elizabeth	Population, 73,409.	Deaths, 1,124.	Rate per 1,000, 15.31.
Plainfield	l'opulation, 20,550.	Deaths, 324.	Rate per 1,000, 15.77.
Perth Amboy	Population, 32,121.	Deaths, 507.	Rate per 1,000, 15.78.
Hackensack	Population, 14,050.	Deaths, 228.	Rate per 1,000, 16.23.
Harrison	Population, 14,498.	Deaths, 237.	Rate per 1,000, 16.35.
Jersey City	Population, 267,779.	Deaths, 4,407	. Rate per 1,000, 16.46.
Newark	Population, 347,469.	Deaths, 5,784	
Camden	Population, 94,538.	Deaths, 1,627.	Rate per 1,000, 17.21.
*Atlantic City		Deaths, 800.	Rate per 1,000, 17.33.
Orange	Population, 29,630.	Deaths, 525.	Rate per 1,000, 17.72.
Hoboken	سنستند		Rate per 1,000, 18.90.
Trenton	Population, 70,324.	Deaths, 1,329.	
New Brunswick	Population, 96,815.	Deaths, 1,969.	Rate per 1,000, 20.34.
*Long Branch	Population, 23,388.	Deaths, 496.	Rate per 1,000, 21.21.
Morristown	Population, 13,298.	Deaths, 292.	Rate per 1,000, 21.96.
	Population, 12,507.	Deaths, 296.	Rate per 1,000, 23.67.

^{*}The death-rate in summer resorts is calculated on the basis of the resident population, whereas the actual population is often several times larger, and on account of this floating population and the large number of invalids included in it, the death-rate is not a criterion of health conditions.

TABLE 9.—SHOWING NUMBER OF DEATHS IN NEW JERSEY FOR THE YEAR ENDING DECEMBER 31, 1910, FROM TEN SELECTED PREVENTABLE DISEASES, WITH PERCENTAGE OF TOTAL MOBTALITY.

NAMES OF DISEASES.	Deaths.	Percentage of total mortality.
Consumption	3,877	9.82
Pneumonia	3,156	7.99
Diarrhœal diseases of children	2,929	7.42
Diphtheria	728	1.84
Typhoid fever	392	.99
Wheoping cough	389	.98
Measles	186	.47
Scarlet fever	229	.58
Malarial feverSmall-pox	25	.06

TABLE 10.—SHOWING DEATHS FROM CEBTAIN SELECTED CAUSES OF DEATH, PER 10,000 INHABITANTS, FOR THE YEARS ENDING DECEMBER 31, 1909, AND DECEMBER 31, 1910; ALSO SHOWING AVERAGE NUMBER OF DEATHS FROM SAID DISEASES DURING PAST THIRTY-TWO YEARS.

DISEASES.	Average number of deaths for thirty-two years.	Deaths per 10,000 inhabitants during year ending December 31st, 1909.	Deaths per 10,000 inhabitants during year ending December 31st, 1910.
Consumption	3,409	15.84	15.28
Diarrhœal diseases of children	2,871	10.07	11.54
Pneumonia*		13.15	12.44
Diseases of heart and circula-			
tion	2,364	17.10	17.49
Digestive and intestinal dis-			
eases	1,565	9.60	10.43
Diphtheria and croup	1,158	2.59	2.87
Renal and cystic diseases	1,570	11.89	11.98
Violent deaths4	1,423	10.54	9.96
Cancer	858	7.07	7.24
Typhoid fever	503	1.28	1.55
Scarlet fever	400	1.44	.90
Puerperal	270	1.32	1.49
Whooping cough	24 1	1.21	1.53
Malarial fever	155	.11	.10
Measles	160	1.08	.78
Erysipelas	91	.24	.44
Acute rheumatism		.29	.21
Small-pox	42	.01	¹

^{*}Deaths from pneumonia were not separately recorded until the year 1801.

TABLE 11.—SHOWING MORTALITY IN NEW JERSEY, FROM CERTAIN SELECTED CAUSES OF DEATH, FOR THE YEAR ENDING DECEMBER 31, 1910, COMPARED WITH DEATHS FOR THE PREVIOUS YEAR.

SELECTED DISEASES.	Deaths for year ending December 31st, 1909.	Deaths for year ending December 31st, 1910.	Comparative mortality.
Consumption	3,608	2 977	1 260
Consumption	5,005	3,877	+ 269
	4,023	4.438	+ 415
tion			+242
Renal and cystic diseases	2,797	3,039	+ 242
Digestive and intestinal dis-	O OFO	0.045	1 207
eases	2,258	2,645	+ 387
Diarrhœal diseases of children	2,369	2,929	+ 560
Cancer	1,663	1,838	+ 175
Diphtheria	610	728	+ 118
Typhoid fever	301	392	+ 91
Scarlet fever	338	229	— 109
Puerperal	311	377	+ 66
Whooping cough	284	389	+ 105
Erysipelas	57	, 112	+ 55
Acute rheumatism	68	54	— 14
Measles	242	186	56
Malarial fever	25	25	 .
Small-pox	2		- 2

CHART SHOWING DEATHS IN NEW JERSEY, FROM CERTAIN SPECIFIED DISEASES, FOR THE PAST THIRTY-TWO YEARS, ARRANGED IN ORDER OF GREATEST FREQUENCY.

DISEASE S	NUMBER OF DEATHS	900 91	20.00	000 OX	40000	3000	0000	0000 Q	90,000	90,000	₩	00'04
CONSUMPTION	109,077											
PLANIMOLAL PISEASES MONIMON												
BISLAND MEMORIAL CONCULATION	75,662								•			
DISCOUNT & WITESTIRM DISCASES	50,095	<u> </u>										
PENAL & CYSTIC DISEASES	50,227											
VIOLENT DEATHS	45,548					_						
DIPHTHERIA & CROUP	87,045				_							
CANCER	27,453			_								
TYPHOID FEVER	16,090											
SCARLET FEVER	12,808		-									
PUERPERAL FEVER	8,654											
WHOOPING COUGH	7,720											
MEASLES	5,132											
MALARIAL FEVER	4,946	<u> </u>										
ERYSIPLLAS	2,916	⊢								•		
ACUTE RHEUMATISM	2,541	F										
SMALL POX	1,361	<u> </u>										

CONSUMPTION.

The death-rate from consumption for the year ending December 31st, 1910, was 15.28 per 10,000 population, which is the lowest in the history of this department, covering a period of thirty-two years.

No doubt the mortality from this disease will be considerably less in the years to come because of the fact that the Legislature has enacted certain laws which permit the State Board of Health to maintain an active campaign to prevent the spread of tuberculosis. One of the most important of these laws is chapter 12, laws of 1910, in which the State Board of Health is given an appropriation for educational and practical purposes in the study, treatment and prevention of tuberculosis, the publication and distribution of literature relating to this disease, and the maintenance of a State tuberculosis exhibit which shall be at the disposal of all communities throughout the State.

The appropriation to carry on this work was not available until November 1st, 1911, therefore the State Board of Health has not yet had sufficient time to secure definite results; however a special tuberculosis inspector has been appointed, and it shall be his duty under the direction of the Board to carry out the provisions of the law to the fullest extent permitted by the appropriation.

TABLE 12.—DEATHS FROM CONSUMPTION IN NEW JERSEY, BY AGE PERIODS, FOR TEN YEARS.

					AGE	PERIO	triods.								
YEARS.	Under 1 year.	1 to 10	10 to 20	20 to 30	80 to 40	40 to 50	50 to 60	60 to 70	70 to 80	Over 80	Not stated.	Totals			
1901	39	78	241	987	827	510	819	199	87	25		8,257			
1902	89	62	227	842	759	504	281	199	76	19	7	8,015			
1908	49	81	285	941	877	584	810	191	95	16	1	3,884			
1904	67	80	81 5	983	1,005	57 5	337	217	78	11	2	3,670			
1905	40	89	809	972	915	606	83 5	197	100	23	1	8,587			
1906	62	98	809	958	942	646	839	199	84	26	1	8,654			
1907	56	61	256	978	967	6 82	407	229	90	25		8,75			
L908	36	74	272	968	1,018	602	844	197	80	15		8,616			
L909	58	68	258	917	976	657	849	220	86	24		8,608			
1910	46	74	271	987	1,047	723	407	216	81	25		8,877			

TABLE 13.—SHOWING NUMBER OF DEATHS AND DEATHS PER 10,000 POPULATION FROM CONSUMPTION IN NEW JERSEY, AND THE PROPORTION OF DEATHS FROM CONSUMPTION TO TOTAL DEATHS DURING THIRTY-TWO YEARS.

YEARS.	Popula- tion.*	Total deaths in New Jersey.	Deaths from con- sumption.	Propertion of deaths from consumption to total deaths.	Deaths from con- sumption per 10,000 population.
1879	1.020.584	20.444	2,788	13.64	27.32
1880	1.130.892	18,967	2,714	14.30	24.00
1881	1,160,275	20.810	2,989	14.36	25.76
1882	1,189,658	25,910	3,475	13.41	29.21
1883	1,209,048	23,310	3,121	13.39	25.81
1884	1,248,224	21,716	3,215	14.80	25.76
1885	1,278,033	23,807	3,320	13.94	25.19
1886	1,310,431	22,734	3,205	14.10	24.46
1887	1,342,829	24,331	3,653	15.01	27.20
1888	1,375,227	27,173	3,358	12.44	24.42
1889	1,407,625	26,543	3,449	12.99	24.50
1890	1,441,017	28,530	3,669	12.96	25.46
1891	1,478,784	28,840	3,456	11.98	23.37
1892	1,511,653	32,685	3,575	10.94	23.65
1893	1,538,799	30,596	3,429	11.21	22.28
1894	1,578,373	30,004	3,433	11.44	21.75
1895	1,672,942	30,634	3,542	11.56	21.17
1896	1,718,543	30,767	3,358	10.92	19.54
1897	1,764,144	29,822	3,237	10.85	18.35
1898	1,810,008	27,337	3,225	11.79	17.82
1899	1,855,872	30,999	3,584	11.56	19.31
1900	1,883,669	31,474	3,514	11.17	18.64
1901	1,925,781	31,739	3,257	10.26	16.91
1902	1,967,893	33,655	3,015	8.96	15.32
1903	2,016,797	31,820	3,380	10.62	16.76
1904	2,058,909	35,298	3,670	10.40	17.83
1905	2,144,143	33,864	3,587	10.59	16.73
1906	2,196,238	35,670	3,654	10.24	16.64
1907	2,248,331	37,408	3,749	10.02	16.67
1908	2,300,427	35,597	3,616	10.16	15,72
1909	2,352,522	36,359	3,608	9.92	15.84
1910	2,537,167	39,494	3,877	9.82	15.28

^{*} Estimated except for census years.

TABLE 14.—SHOWING MORTALITY BATES FROM ALL CAUSES AND FROM CONSUMP-TION ONLY, IN MUNICIPALITIES HAVING 5,000 INHABITANTS OR OVER, FOR THE YEAR ENDING DECEMBER 31, 1910, PER 10,000 POPULATION.

•	Deaths from all causes per 10,000 population.	Deaths from consumption per 10,000 population.
Atlantic County	166.3	15.92
*Atlantic City	178.8	10.40
Bergen County	120.0	11.26
Englewood Garfield	157.2	7.05
Garfield	127.3	4.88
Hackensack Rutherford	162.3 97.9	14.28
Burlington County	161.4	5.68 12.60
Bordentown	188.2	11.76
Bordentown Burlington	180.0	15.60
Camden County Camden City	151.2	15.51
Camden City	172.1	11.95
Gloucester City	155.4 149.4	19.02
Cape May County Cumberland County	146.7	11.14 12.63
Bridgeton	132.0	20.41
Millville	119.7	13.65
Essex County	158.3	17.17
Bloomfield	111.5	9.29
East Orange	107.7	9.02
Irvington	119.6 150.3	13.47 13.92
Newark	166.5	20.58
0	177.2	22.61
West Orange	86.5	8.20
West Orange Gloucester County Hudson County	132.7	13.65
Hudson County	215.1	50.94
Bayonne Harrison	148.9 163.5	10.98 17.93
Hoboken	189.0	21.47
Jersey City	164.6	16.54
Kearny	147.9	14.47
Town of Union West Hoboken West New York	119.9	7.14
West Hoboken	109.0	9.89
West New York	124.6	15.49
Tambertville	149.4 122.4	14.53 10.74
Hunterdon County Lambertville Mercer County	127.8	11.39
Princeton	151.9	31.15
Trenton	203.4	19.32
Middlesex County	124.8	8.86
New Brunswick Perth Amboy	212.1 157.8	17.10
South Amboy	154.1	10.90 2.85
Monmonth County	140.6	10.49
*Asbury Park	167.5	18.72
*Long Branch	219.6	15.04
Red Bank	152.7	5.41
Morris County	158.4	14.07
Morristown	133.9 236.7	8.03 17.59
Ossan Conntr	1800	14.54
Passaic County Passaic City Paterson	117.7	9.85
Passaic City	149.5	10.04
Paterson		15.84
Salem County Salem City	129.0	19.13
Salem CitySomerset County	142.1 185.2	7.56
North Plainfield	135.2 127.5	8.87 6.54
Sussex County	140.0	6.35
Union County	112.7	9.57
Elizabeth	153.1	14.58
Plainfield	157.7	17.03
Rahway Summit	106.0	8.57
Westfield	184.0 121.5	20.00 9.35
Warren County	149.2	10.93
Phillipsburg	153.2	13.67

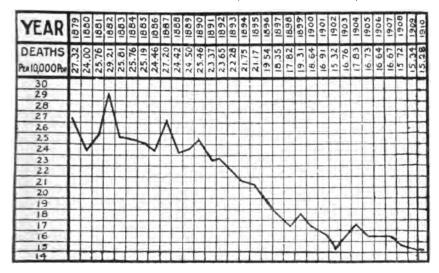
^{*}The death-rate in summer resorts is calculated on the basis of the resident population, whereas the actual population is often several times larger, and on account of this floating population and the large number of invalids included in it, the death-rate is not a criterion of health conditions.

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TABLE 15.—SHOWING AVERAGE ANNUAL DEATH-RATES FROM ALL CAUSES AND AVERAGE ANNUAL DEATH-RATES FROM CONSUMPTION IN NEW JERSEY FOR THIRTY-TWO YEARS, BY COUNTIES, COMPARED WITH DEATH-RATES FROM ALL CAUSES AND DEATH-RATES FROM CONSUMPTION, FOR THE YEAR ENDING DECEMBER 31, 1910, PER 10,000 POPULATION.

		AVERAGES	PER YEAR.	
COUNTIES.	Average annual death-rate from all causes per 10,000 population for thirty-two years.	Average annual death-rate from consumption per 10,000 population for thirty-two years.	Death-rate per 10,000 population from all causes for year ending Dec. 31, 1910.	Death-rate from con- sumption per 10,000 population for year ending Dec. 31, 1910.
Atlantic County	169.8	16.79	170.8	12.38
Bergen County	95.1	14.13	126.4	10.51
Burlington County	154.9	17.78	165.4	12.92
Camden County	186.6	21.93	165.4	13.38
Cape May County	139.3	13.78	149.4	11.14
Cumberland County	78.5	19.35	142.0	14.87
Essex County	190.7	25.55	157.4	18.60
Gloucester County	144.7	17.06	132.7	13.65
Hudson County	211.0	25.09	162.9	18.33
Hunterdon County	135.7	14.58	145.7	14.00
Mercer County	174.1	21.99	187.0	18.30
Middlesex County	160.9	16.38	153.7	10.75
Monmouth County	151.6	16.39	155.5	11.61
Morris County	106.1	19.54	169.1	14.06
Ocean County	143.7	19.65	153.9	14.54
Passaic County	182.9	21.13	143.0	13.39
Salem County	144.6	18.37	132.2	16.30
Somerset County	141.9	15.41	134.0	8,50
Sussex County	126.5	14.63	140.0	6.35
Union County	135.0	15.30	144.2	13.77
Warren County	146.6	14.68	150.5	11.81
The State	174.2	20.69	155.7	15.28

CHART SHOWING DEATHS FROM CONSUMPTION IN NEW JERSEY, PER 10,000 POPULATION, FOR THE THIRTY-TWO YEARS, ENDING DECEMBER 31, 1910.



PNEUMONIA.

Deaths from pneumonia in New Jersey have been separately classified for the past ten years, and during this decade the deathrate from this disease has not shown an alarming increase; the death-rate for the past year per 10,000 inhabitants being 12.44 as against 13.15 over the previous year, and there is no doubt that the campaign against tuberculosis and other diseases of the respiratory system, which called for the enactment of such laws as the abolishment of the public drinking cup, will also be the means of lessening to some extent diseases of the respiratory system.

TABLE 16.—SHOWING DEATHS IN NEW JERSEY FROM PNEUMONIA, WITH AGE AT DEATH, FOR THE YEAR ENDING DECEMBER 31, 1910.

		AGE PERIODS.																		
DEATHS FROM PNEUMONIA.	Under 1 mo.	Under 1 year.	to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	40 to 45	45 to 50	50 to 55		60 to 70	70 to 80	80 to 90	Over 90.	Not stated.	Total.
	91	411	410	58	43	53	81	98	128	138	146	152	183	166	430	392	157	19		8.156

TABLE 17.—SHOWING DEATHS FROM PNEUMONIA IN CITIES OF OVER 5,000 INHABITANTS, IN NEW JERSEY, BY MONTHS, FOR THE EIGHT YEARS ENDING DECEMBER 31, 1910, AND DEATH-RATES PER 10,000 INHABITANTS, FOR EACH OF SAID YEARS.

YEARS.	Estimated popula- tion of cities of over 5,000 inhabi- tants.	MONTHS.									49.11	Death-			
		Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oet	Nov.	Dec.	Totals.	per 10,000 inhabi- tants.
1903	1,363,464	271	288	261	128	155	67	98	58	75	91	202	278	1,972	14.46
1904	1,370,719	401	350	394	315	241	134	42	51	72	108	187	289	2,584	18.85
1905	1,429,100	309	271	251	190	178	96	75	73	69	121	199	209	2,041	14.28
1906	1,505,142	340	286	341	175	189	86	80	69	-89	127	178	285	2,245	14.92
1907	1,546,574	361	290	333	235	214	144	100	64	93	142	162	364	2,502	16.18
1908	1,584,217	329	279	252	178	174	80	66	73	89	154	149	269	2,092	13.21
1909	1,623,851	301	254	314	299	.208	104	67	52	95	142	203	286	2,825	14.32
1910	1,742,534	857	224	297	273	191	123	69	76	84	103	185	332	2,314	13.28
Totals,		2,669	2,242	2,443	1.793	1,550	834	597	516	666	998	1,465	2,312	18,075	

TABLE 18.—SHOWING DEATHS AND DEATH-RATES FROM PNEUMONIA IN NEW JERSEY FOR TEN YEARS, 1901-1910.

	YEARS.	Deaths from pneumonia.	Deaths from pneumonia per 10,000 inhabitants.		
1901		2,539	13.18		
1902		2,421	12.30		
1903		2,628	13.03		
1904		3,486	16.93		
1905		2.764	12.89		
1906		3,117	14.19		
1907		3,307	14.70		
1908		2,773	12.05		
1909		3,094	13.15		
1910		3,156	12.44		

DEATHS AMONG CHILDREN.

A noticeable decrease is shown in the death-rate among children under five years of age, per 10,000 population, for the year ending December 31st, 1910. The death-rate per 10,000 for the year mentioned being 45.91, which is lower than for any period during the past seven years.

TABLE 19.—SHOWING NUMBER OF DEATHS IN NEW JERSEY; DEATHS AMONG CHIL-DREN UNDER FIVE YEARS OF AGE; DEATHS UNDER FIVE YEARS FROM BIAR-RHOEAL DISEASES, AND DEATHS UNDER FIVE YEARS PER 10,000 INHABI-TANTS, FOR THE TEN YEARS ENDING DECEMBER 31, 1910.

	NEW JERSEY.									
DEATHS.	1901.	1902.	1908.	1904.	1905.	1906.	1907.	1908.	1909.	1910.
Total deaths Deaths under five years Deaths under five years from	9,549		81,820 9,950	85,298 10,918	35,864 9,864	85,670 11,246	87,408 10,867	85,597 10,869	36,859 11,187	39,494 11,648
diarrhœa Percentage of deaths under five	1,787	","		2,854	'	'		.,	2,850	
years to total deaths		81.80 49.81				81.53 51.21			80.68 47.84	

TABLE 20.—SHOWING DEATHS AMONG CHILDREN UNDER FIVE YEARS OF AGE IN NEW JERSEY PER 10,000 POPULATION, FOR THIRTY-TWO YEARS.

YEARS.	Deaths under 1 year per 10,000 popula- tion.	Deaths from 1 to 5 years per 10,000 population.	YEARS.	Deaths under 1 year per 10,000 popula- tion.	Deaths from 1 to 5 years per 10,000 population.
1879	45.58	33.97	1895	45.67	21.79
1880	40.38	25.12	1896	43.99	24.43
1881	39.90	25.75	1897	40.16	20.00
1882	49.88	38.48	1898	35.91	15.83
1883	44.48	28.22	1899	38.22	17.04
1884	41.04	22.82	1900	37.05	18.44
1885	44.69	26.67	1901	36.11	13.48
1886	41.31	23.83	1902	36.18	13.63
1887	43.56	25.29	1903	37.08	15.38
1888	47.51	28.90	1904	36.18	16.82
1889	48.61	24.95	1905	32.42	13.59
1890	49.38	25.38	1906	35.39	15.81
1891	46.90	25.36	1907	34.39	13.94
1892	52.74	29.08	1908	34.01	13.24
1893	49.22	24.26	1909	32.55	14.79
1894	49.75	22.97	1910	32.92	12.99

TABLE 21.—SHOWING DEATHS IN NEW JERSEY FROM DIARRHOEAL DISEASES OF CHILDREN, WITH AGES AT DEATH, COMPARED WITH DEATHS FROM ALL CAUSES AMONG CHILDREN UNDER FIVE YEARS OF AGE, FOR YEAR ENDING DECEMBER 31, 1910.

AGE PERIODS.	Deaths from diarrhœal diseases.	Deaths from all causes among children under five years of age.		
Under one month Over one month and under one year One to five	227 2,181 521	2,887 5,465 3,296		
Total	2,929	11,648		
		igitized by GOOGIC		

table 22.—showing total deaths, deaths under five years, percentage of years per 10,000 inhabitants, for certain cities of new jersey $31,\ 1910.$

		19	06.			19	07.	
NAME OF PLACE.	Total deaths.	Deaths under five years.	Percentage of deaths under five years to total deaths.	Deaths under five years per 10,000 population.	Total deaths.	Deaths under five years.	Percentage of deaths under five years to total deaths.	Deaths under five years per 10,000 population.
Atlantic City	710	170	23.94	42.99	699	162	23.18	39.04
Bayonne	759	360	47.43	81.50	763	345	45.22	76.87
Bloomfield	170	51	30.00	42.26	145	47	32,41	87.70
ridgeton	195	44	22.56	32.30	239	43	17.99	31.8
turlington	146	43	29.45	52.65	155	38	24.52	45.8
Camden	1,565	566	36.17	66.71	1,506	455	30.21	41.1
over	72	29	40.27	45.06	104	27	25.96	41.4
Cast Orange	269	65	24.16	25.09	297	60	20.20	22.5
lizabeth	1,097	398	36.28	64.00	1,194	421	35.26	65.9
Inglewood	141	39	27.66	47.24	143	34	23.78	39.5
loucester City	153	56	36.60	67.49	167	65	38.92	76.10
lackensack	193	61	31.61	53.37	218	68	31.19	57.8
Harrison	233	95	40.77	71.60	264	99	37.50	72.1
Hoboken	1,431	440	30.75	65.98	1,556	481	30.91	70.8
rvington	101	1 500	21.78	29.08	114	25	21.92	81.4
ersey City	4,607	1,538	33.38	64.63	4,723	1,456	30.83	59.8
Cearnyong Branch		69	27.82	48.79	213	52	24.41	85.4
diliville	233 166	48 61	20.60 36.75	37.37 50.23	288 174	70 52	24.31 29.89	45.1
Iontelair	261	91	34.87	54,00	291	93	31.95	41.9 58.6
dorristown	260	84	32.18	68.17	281	83	29.53	66.4
lewark	5,547	1.840	33.17	63.29	5,736	1,666	29.04	55.8
lew Brunswick	422	164	38.86	69.03	468	163	34.82	66.8
orth Plainfield	55	13	27.36	22.66	87	21	24.14	85.8
range	539	166	30.79	62.66	513	132	25.73	49.1
assaic City	653	317	48.55	79.55	808	409	50.62	97.7
aterson	1,992	681	34.18	60.37	1,839	523	28.44	45.8
erth Amboy	355	190	53.52	69.01	399	198	49.62	67.8
hillipsburg	161	55	34.16	48.34	220	85	38.64	57.9
lainfield	304	85	27.96	44.53	358	86	24.02	43.6
Rahway	110	15	13.64	17.06	125	22	16.30	24.6
Red Bank	92	30	32.61	46.66	91	30	32.97	45.4
alem City	111	25	22.52	38.06	109	24	22.02	35.8
outh Amboy	137	49	35.77	78,30	105	37	35.24	59.4
ummit	101	19	18,31	26,56	85	21	24.71	28.1
Town of Union	287	87	30.31	50.09	291	94	32.30	53.0
renton	1,493	467	31.28	54.08	1,599	418	26.14	47.2
Vest Hoboken	385	134	34.81	44.25	371	129	34.77	40.9
West New York	104	40	38.46	52.76	136	63	46.32	79.0
West Orange	86	22	25,58	27.26	95	29	30.53	35.0

DEATHS UNDER FIVE YEARS TO TOTAL DEATHS AND DEATHS UNDER FIVE HAVING OVER 5,000 POPULATION FOR THE FIVE YEARS ENDING DECEMBER

<u>-</u> -				=							=
	19	908.			19	09.			19	10.	
Total deaths.	Deaths under five years.	Percentage of deaths under five years to total deaths.	Deaths under five years per 10,000 population.	Total deaths.	Deaths under five years.	Percentage of deaths under five years to total deaths.	Deaths under five years per 10,000 population.	Total deaths.	Deaths under five years.	Percentage of deaths under five years to total deaths.	Deaths under five years per 10,000 population.
656	149	22 71 46.40 84.18 23.89 30.57 33.51 28.41	34.80 69.81 41.96 81.97 56.97 56.14	679 678 152 210 134 1,480	161	28.71	35.46 60.13 80.15 86.59 52.60	800	218	26.63 42.93 26.79 18.52	46.15
722	385 54	46.40	69.81	678	300 40	44.25	60.13	827	355 45	42.93	63.91
108	43	28.18	41.96 81.97	210	40	20.32	86.59	216	40.	26.79 18.59	29.86
157	48	30.57	56.97	134	45	33.58	52.60	150	51	31.00	63.91 29.86 28.15 61.18
1,471	48 493 25	33.51	56.14	1,480	443	29.93	49.61	1,627	538	99 07	55.85 45.58
981	25 64	28.41	37.87 23.38 60.42	999	49 45 443 36 57 459	23.71 44.25 26.32 23.33 33.58 29.93 82.43 17.70 40.23 87.04 88.89 26.70 28.89 32.23 25.29 17.87 19.85 30.46	49.61 53.85 20.28 68.29	800 827 168 216 150 1,627 100 370; 1,124 156 147	40 51 538 34 65 388 72 103 360 32 1,333	34.00 17.57 34.52 20.51 39.46 31.58 43.46	45.58
1.084	896	28.41 28.02 36.53 26.19 38.95 29.41 42.15	60.42	322 1,141 135	459	40.23	68.29	1.124	888	84.52	45.53 18.91 52.85 82.25 61.30 51.25 71.04 51.19 26.94
126	33	26.19	36.98 76.28 41.35 66.89	135	50 68 51 70	87.04	54.02 69.79	156	32	20.51	82.25
172	67 50	38.95	76.28	162	68	38.89	69.79	147	58	89.46	61.30
228	94	42.15	66.89	180	70	88.89	41.06 47.93	225	108	48 46	71.04
1.266	396 33 67 50 94 405 22 1.831 55 59 83 1.640 1164 1166 885 555 5218	81.99 22.22 80.06 27.00 22.47	00.09	180 1,241 127 4,404 207 262 151	400 32 1,541 37	32.23	56.86	228 237 1,829 142	360	27.09 22.54 30.25 20.29 19.18 27.52 86.78 25.00	51.19
99	22	22.22	26, 39 53, 57, 42, 04, 42, 04, 42, 04, 42, 04, 42, 04, 44, 44, 46, 55, 65, 68, 65, 68, 67, 75, 75, 48, 46, 70, 73, 20, 70, 52, 73, 20, 70, 52, 74, 75, 76, 76, 76, 76, 76, 76, 76, 76, 76, 76	127	32	25.20	86.70 .	142	32	22.54	26.94
4,428	1,831	27.00	58.57 42 04	207	1,541	34.99 17.87	60.74 28.47	4,407 276	1,883	30.20	49.78 30.01 42.11 82.93 55.22 59.17 51.08 72.26 27.79 51.64 75.22 41.32 79.70 51.79 86.98
227	51	22.47	85.99	262	52.	19.85	85.06	292	56,	19.18	42.11
187	55	29.41	48.44	151	52 46 85 72 1,742 197 12 187 485	30.46	35.06 35.59	292 149	.41	27.52	82.98
235	59	25.11	83.12	277 254 5,516 487	85	30.69 28.35 31.58 40.45 18.46 30.65 55.56	46.46 56.04	824 296 5,784 496	119 74 1,775 169 17 153 412	86.78	55.22
267	1 640	81.09 81.55	58.66	5 516	1 742	28.80	55 64	5 784	1 775	20.00	51.08
454	164	86,12	65.58	487	197	40.45	55.64 76.85 19.67 49.51 94.80 45.11 70.57 19.38 84.37 30.37 46.17	496	169	34.07	72.26
54	11	20.87	18.39	65 447 783 1,888 432 158 295 121 102 91	12	18.46	19.67	78 525 819 1,850 507 213 824	17	21.79	27.79
525	166	81.62	60.86	447	137	30.65	49.51	525	153	29.14	51.64
1 967	559	20.94	48 46	1.888	526.	27.86	45.11	1 850	519	28.05	41 32
395	218	85.19	70.75	482	526 229 31 72 28 32 26 34	58.01 19.62 24.41	70.57	507	256	50.49	79.70
151	42 72 17	27.81	27.39	158	31	19.62	19.88	213	72	88.80	51.79
334	72	21.56	85.42	295	721	24.41	84.87.	824	76	28.46	36.98
133	14	16.47	20.70	102	32	23.14	46 17	99 113	21	21.21	22.49
118	86	80.51	52.77	91	26	28.57	37.42	94	22	23.40	88.26
656 722 158 180 157 1,471 88 1,084 172 170 123 1,266 1,266 1,267 1	86 86 19 79 528 188	29,41 25,11 81,69 81,55; 86,15,52 20,87 81,62 50,52; 94,27,81 21,56 12,78 16,47 30,51 40,00 17,92 22,87 32,18 34,41 38,38 33,96	58.04	94	34	81.37 28.57 86.17	37.42 54.97 87.13	113 94 106 138 252 1,969	519 256 72 76 21 29 22 31 27	80.69 84.07 21.79 29.14 50.31 28.05 50.49 88.80 28.46 21.21 25.66 28.40 28.70 19.56 88.10 88.10	22.49 89.20 88.26 44.24
106	19	17.92	24.45	97	80 69 500 160	30.98 24.91 30.10 38.10 86.18	87.13	188	27	19.56	86.00 45.66
294	522	20.87 99.19	48.66 57.66	1 661	500	24.91 80 10	37.38 53.88	1 960	96 655	88.10	40.66 67.65
401	188	84.41	42.23	420	160	38.10	53.88 47.24	386	655 106	27.46	67.65 29.94
141	47 86	88.88	57.66 42.23 56.27 42.54	277 1,661 420 152	55 31	86.18	62.94 35.81	103	70	41.42	51. 62
106	861	33.96	42.54	116	31_	26.72	35.81	95	82	33.68	29.14
				-			-				

TABLE 23.—SHOWING DEATHS IN CERTAIN CITIES OF NEW JERSEY, ALSO DEATHS AMONG CHILDREN UNDER FIVE YEARS OF AGE; DEATHS UNDER FIVE YEARS FROM DIARRHOEA AND DEATHS UNDER FIVE YEARS PER 10,000 INHABITANTS.

		N	EWARK.		
DEATHS.	1906.	1907.	1908.	1909.	1910.
Total deaths	5,547	5,786	5,198	5,516	5,784
Deaths under five years	1.840	1,666 870	1,640	1,742 34 0	1,775
Deaths under five years from diarrhose	380	870	844	340	861
Deaths under five years per 10,000 population	88.17 63.29	29.04 55.67	81.55 53.66	81.58 55.64	80.69 51.06
		JEI	REY CIT	Y.	
DEATHS.	1906.	1907.	1908.	1909.	1910.
Total deaths	4,607	4,728	4,428	4,404	4,407
Deaths under five years	1,5 3 8 85 4	1,456 371	1.381	1,541 832	1,838 390
Deaths under five years from diarrhœa Percentage of deaths under five years to total deaths	33.38	80.88	375 30.06	84.99	30.20
Deaths under five years per 10.000 population	64.68	59.87	58.57	60.74	49.78
			ATERSON		
DEATHS.	I	<u>_</u>		· 	
	1906.	1907.	1908.	1909.	1910.
Total deaths	1,992	1,839	1,867	1,888	1,850
Deaths under five years	681	528	559	526	519
Deaths under five years from diarrhosa	180	126	126	108	142
Deaths under five years per 10,000 population	34.18 60.37	28.44 45.85	29.94 48.46	27.86 45.11	28.05 41.32
			CAMDEN.		
DEATHS.			AMUEN.		
	1906.	1907.	1908.	1909.	1910.
Total deaths	1,565	1,506	1,471	1,480	1,62
Total deaths	566	455	483	448	588
Deaths under five years from diarrhosa	89	84	57	88	106
Percentage of deaths under five years to total deaths	36.17	30.21	82.83	29.98	88.0
Deaths under five years per 10,000 population	66.71	52.70	55.00	49.61	55.90
200 may 100 ma					
			IOBOKEN		
	1906.	1907.	1908.	1909.	1910.
DEATHS.		1907.	1908.	1909.	
DEATHS. Total deaths	1,431 440	1907. 1,556 481	1908.	1909. 1,241 400	1,32
DEATHS. Total deaths	1,431 440 81	1907. 1,556 481 88	1908. 1,266 406 105	1909. 1,241 400 87	1,32 36
DEATHS. Total deaths	1,431 440 81 80.75	1907. 1,556 481 88 30.91	1908. 1,266 405 105 82.00	1909. 1,241 400 87 82.28	1,32 36 8 27,0
DEATHS. Total deaths	1,431 440 81	1907. 1,556 481 88	1908. 1,266 406 105	1909. 1,241 400 87	1,32 36
DEATHS. Total deaths	1,431 440 81 80.75	1907. 1,556 481 88 30.91 70.83	1908. 1,266 405 105 82.00	1909. 1,241 400 87 82.28 56.86	1,32 36 8 27,0
DEATHS.	1,431 440 81 80.75	1907. 1,556 481 88 30.91 70.83	1908. 1,266 405 105 82.00 58.59	1909. 1,241 400 87 82.28 56.86	1,32 36 8 27,0
DEATHS. Total deaths	1,431 440 51 30.75 65.98	1907. 1,556 481 88 30.91 70.83	1908. 1,266 405 105 32,00 58.59 TRENTON.	1909. 1,241 400 87 82.23 56.86	1,322 366 81 27.00 51.11
DEATHS. Total deaths	1,431 440 81 30.75 65.98	1907. 1,556 481 88 30.91 70.83	1908. 1,266 405 1055 82.00 58.59 **RENTON. 1908.	1909. 1,241 400 87 82.23 56.86	1,322 366 88 27.00 51.11
DEATHS. Total deaths	1,431 440 30.75 65.98 1906.	1907. 1,556 481 88 30.91 70.83 1907.	1908. 1,266 405 105 82.00 58.59 CRENTON. 1908. 1,625 523 95	1909. 1,241 400 87 \$2.28 56.86	1,32 36 8 27.0 51.1 1910.
DEATHS. Total deaths	1,431 440 81 30.75 65.98 1906.	1907. 1,556 481 88 30.91 70.83	1908. 1,266 406. 105 82.00 58.59 PRENTON. 1908.	1909. 1,241 400 87 82,23 56,86 1909. 1,661 500 108 30,10	1,322 366 88 27.00 51.11 1910. 1,966 65 188 33.2

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TABLE 24.—SHOWING DEATHS IN NEW JESSEY UNDER FIVE YEARS OF AGE PER 10,000 POPULATION FOR THIRTY-TWO YEARS, TOGETHER WITH AVERAGES FOR THE NINETEEN YEARS, 1879–1897, AND ALSO FOR THE THIRTEEN YEARS, 1898–1910.

YEARS.	Deaths under five years per 10,000 population.	YEARS.	Deaths under five years per 10,000 population.
1879	75.55	1898	51.74
1880	65.50	1899	55.26
1881	65.65	1900	55.49
1882	88.36	1901	49.59
1883	72.70	1902	49.81
1884	63.86	• 1903	52.46
1885	71.36	1904	53.00
L886	65.14	1905	46.01
1887	68.85	1906	51.21
1888	76.41	1907	48.33
1889	73.56	1908	47.25
1890	74.74	1909	47.34
1891	72.26	1910	45.91
1892	81.82		
1893	73.48		
1894	72.72	1	
1895	67.46	1	
1896	68.42	į į	
1897	69.16		
Average death-rate for		Average death-rate for	
nineteen years end-	71.69	thirteen years end-	KO 00
ing 1897	11.00	ing 1910	50.28

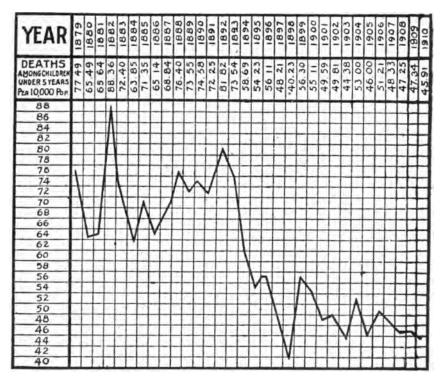
TABLE 25.—SHOWING PERCENTAGE OF DEATHS UNDER FIVE YEARS TO TOTAL DEATHS, AND DEATHS UNDER FIVE YEARS PER 10,000 INHABITANTS FOR CERTAIN CITIES OF NEW JERSEY HAVING OVER 5,000 POPULATION, FOR THE YEAR ENDING DECEMBER 31, 1910.

NAMES OF CITIES.	Percentage of deaths under five years to total deaths.	Deaths under five years per 10,000 inhabitants.
		10.17
Atlantic City	26.63	46.15
Englewood	20.51	32.25
Garfield	67.69	86.16
Hackensack	31.58	51.25
Rutherford	20.29	19.87
Bordentown	28.75	54.12
Burlington	34.00	61.18
Camden	33.07	55.85
Gloucester	39.46	61.30
Bridgeton	18.52	28.15
Millville	27.52	32.92
Bloomfield	26.79	29.86
East Orange	17.57	18.91
Irvington	22.54	26.94
Montclair	36.73	55.22
Newark	30.69	51.08
Orange	29.14	51.64
West Orange	33.68	29.14
Bayonne	42.93	63.91
Harrison	43.46	71.04
Hoboken	27.09	51.19
Jersey City	30.25	49.78
Kearny	20.29	30.01
Town of Union	38.10	45.66
West Hoboken	27.46	29.94
West New York	41.42	51.62
Lambertville	15.79	19.33
Princeton	16.67	25.31
Trenton	33.27	67.65
New Brunswick	34.07	72.26
Perth Amboy	50.49	79.70
South Amboy	28.70	44.24
Asbury Park	25.88	43.35
Long Branch	19.18	42.11
Red Bank	25.66	39.20
Dover	34.00	45.53
Morristown	25,00	59.17
Passaic	50.31	75.22
Paterson	28.05	41.32
Salem	23.40	33.26
North Plainfield	21.79	27.79
Elizabeth		52.85
Plainfield	23.46	36.98
Rahway	21.21	22.49
Summit	19.56	36.00
Westfield	16.67	20.25
Phillipsburg	33.80	51.79

TABLE 26.—SHOWING NUMBER OF DEATHS IN NEW JERSEY AMONG CHILDREN UNDER FIVE YEARS OF AGE IN MANUFACTURING DISTRICTS, AND ALSO IN COUNTIES OUTSIDE OF THE LARGER TOWNS, WITH COMPARATIVE MORTALITY.

NAMES OF MANUPACTURING TOWNS.	Popula- tion, 1910.	Number of deaths occurring in chil- dren under five years of age.	Number of deaths of children under five years of age for each 1,000 of population.	cities.	Number of deaths occurring in children under five years of age in counties outside of larger cities.	Number of deaths of children un- der five years of age for each 1,000 of population in counties out- side of larger cities.
Bayonne (Hud. Co.)	55,545	355	6.89	40,440	175	4.33
Beverly (Bur. Co.)	2,140	18	6.07	58,979	245	4.54
Boonton (Morris Co.)	4.930	17	8.45	54,729	174	8.18
Bordentown (Bur. Co.)	4,250	23	5.41	58,979	245	4.54
Bound Brook (Som. Co.)	3,970	17	4.28	32,708	93	2.84
Bridgeton (Cumb. Co.)	14,209		2.82	28,493	82	2.88
Bartington (Bur. Co.)	8.336	51	6.12	58,979	245	4.54
Camden (Cam. Co.)	94,588	583	5.59	38,029	125	8.29
Carlstadt (Ber. Co.)	8,807	8	2.10	96,770	349	3.61
Elizabeth (U. Co.)	78,409	388	5.29	22,981		3.66
Garfield (Ber. Co.)	10,218	' 88	8.62	96,770	34 9	8.61
Gloucester City (Cam. Co.)	9,462	58	6.18	88,029	125	8.29
Hoboken (Hud. Co.)	70,324	860	5.12	40,440	175	4.38
Jersey City (Hud. Co.)	267,779	1,338	4.98	40.440	175	4.33
Lambertville (Hunt. Co)	4,657	9	1.98	28,912	68	2.85
Lodi (Ber. Co.)	4.188	80	7.25	96,770	849	3.61
Millburn Essex Co.)	8,720	10	2.69 8.79	41,989	170 241	4.05 4.64
Milltown (Mdx. Co.)	1,584 12,451	6 41	3.29	51,910 28,498	82	2.88
Millville (Cumb. Co.) Newark (Essex Co.)	347,469	1.775	5.11	41,939	1	4.06
New Brunswick (Mdx. Co	28,388	169	7.28	51,910	241	4.64
Orange (Essex Co.)	29,630	153	5.16	41,989	170	4.05
Passaic City (Pas. Co.)	54,778	412	7.52	85,529	138	3.88
Paterson (Pas. Co.)	125,600	519	4.18	35,529	188	3.88
Perth Amboy (Mdx. Co.)	32,121	256	7.97	51,910	241	4.64
Perth Amboy (Mdx. Co.) Phillipsburg (W. Co.)	13,903	72	5.18	29,284	107	8.65
Plainfield (U. Co.)	20,550	76	8.70	22,981	84	8.66
Rahway (U. Co.)	9,887	21	2.25	22,981	84	8.66
Raritan (Som. Co.)	3,672	14	3.81	82,708	98	2.84
Riverton Bor. (Bur. Co.)	1,788	5	2.80	63,979	245	4.54
Salem City (Salem Co.)	6,614	22	8.33	20,385	48	2.11
South River (Mdx. Co.)	4,772	82	6.71	51,910	241	4.64
Town of Union (Hud. Co.)	21,023	96	4.57	40,440	175	4.33
Trenton (Mer. Co.)	96,815	655	6.77	23,706	64	2.70
Vineland (Cumb. Co.)	5,282	36	6.81	28,498	82	2.88
Wharton (Mor. Co.)	2,988	16	5.36	54,729	174	8.18

CHART SHOWING DEATHS IN NEW JERSEY AMONG CHILDREN UNDER FIVE YEARS OF AGE, PER 10,000 POPULATION, FOR THIRTY-TWO YEARS.



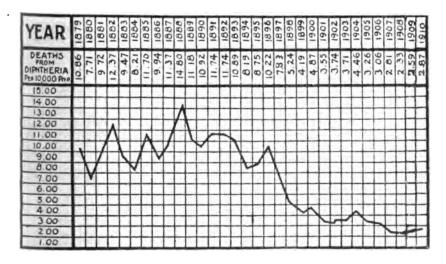
DIPHTHERIA.

A slight increase is shown in the death-rate from diphtheria for the past year. The rate per 10,000 population in New Jersey for the past three years is as follows: 1908, 2.33; 1909, 2.59; 1910, 2.87. It will be noticed by these figures that the death-rate is almost stationary, and with the facilities at hand to permit a rapid examination of sputum in suspected cases, and the use of antitoxin, there is no reason to suppose that an increase in the death-rate from this disease will appear.

TABLE 27.—SHOWING DEATHS IN NEW JERSEY FROM DIPHTHERIA WITH AGES OF DECEMBERS, FOR YEAR ENDING DECEMBER 31, 1910.

AGE PERINDS.	Deaths from Diphtheria.	AGE PERIODS.	Deaths from Diphtheria.	AGE PERIODS.	Deaths from Diphtheria.
Under 1 month		25 to 30		60 to 70	
Under 1 year	54	80 to 85	2	70 to 80	
1 to 5	437	85 to 40	1	80 to 90	• • • • • • • • • • • • • • • • • • • •
5 to 10	182	40 to 45	1	Over 90	
10 to 15	. 33	45 to 50	1	Not stated	l
15 to 20	5	50 to 55	2		
20 to 25	7	55 to 60		Total	728

CHART SHOWING DEATHS FROM DIPHTHERIA PER 10,000 POPULATION, IN NEW JERSEY, FOR THE THIRTY-TWO YEARS ENDING DECEMBER 31, 1910.



TYPHOID FEVER.

The death-rate from typhoid fever for the year ending December 31st, 1910, was 1.55 per 10,000 inhabitants, a slight increase over the previous year; however, these figures are below the average death-rate from this disease for the past ten years, which is 1.78 per 10,000 inhabitants.

It will be noticed by referring to table 28 that the annual deathrate from typhoid fever in the various registration states and cities throughout the country is much higher than in New Jersey.

66 REPORT OF STATE BOARD OF HEALTH.

Continued efforts are being made by the State Board of Health to regulate the sale and distribution of milk, to purify the various water supplies throughout the State, to require the purification of sewage, and other precautionary measures to prevent the spread of typhoid fever.

TABLE 28.—SHOWING COMPARATIVE DEATH-RATES FROM TYPHOID FEVER, PER 10,000 INHABITANTS, IN THE REGISTRATION AREA OF THE UNITED STATES AND IN NEW JERSEY, FOR THE TEN YEARS ENDING DECEMBER 31, 1910.

· · · · · · · · · · · · · · · · · · ·	7.72.2					-	-	_	-			
	DEAT	HS FRO	M TY	HOID	FEVER	PER 1	10,000 1	NHABI	TANTS			
	Annual average, 1901–1910.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	1909.	1910.	
Registration area of United States	2.94	8.24	3.44	3.43	8.19	2.81	3.21	3.03	2.53	2.20	2.85	
New Jersey	1.78	1.83	2.17	1.92	1.87	1.68	1.86	2.06	1.60	1.28	1.55	•

, TABLE 29.—SHOWING DEATHS PER 10,000 POPULATION FROM TYPHOID FEVER IN NEW JERSEY FOR THIRTY-TWO YEARS.

YEAR.	Population.*	Number of deaths. from typhoid fever.	Deaths from typhoid fever, per 10,000 in- habitants.	YEAR.	Population.*	Number of deaths from typhoid fever.	Deaths from typhoid fever, per 10,000 in- habitants.
1879	1,020,584	824	3.17	1895	1,672,942	568	3.39
1880	1,130,892	373	3.29	1896	1,718,548	577	8.85
1881	1,160,275	574	4.94	1897	1.764.141	4-8	2.70
1882	1,189,658	884	7.43	1893	1,810,008	450	2.48
1888	1,209,048	564	4.66	1899	1,855,872	486	2.62
1884	1,248,224	640	5.12	1900	1,883,669	856	1.87
1885		642	5.02	1901	1,925,781	352	1.98
1886	1.310.431	545	4.15	1902		428	2.17
1887	1.342.829	522	3.88	1903		388	1.92
1888	1,875,227	620	4.50	1904	2,058,909	384	1.87
1889	1,407,625	724	5.14	1905	2,144,143	360	1.68
1890	1.441.017	782	5.42	1906	2.196.238	403	1.86
1891	1,478,784	695	4.69	1907		464	2.06
1892	1,511,653	628	3.15	1908		367	1.60
1898	1,538,799	506	3.28	1909	2,352,522	301	1.28
1894		485	3.07	1910	2.537,167	392	1.55

^{*} Population estimated except for census years.

TABLE 30.—SHOWING DEATHS FROM TYPHOID FEVER IN NEW JERSEY, PER 10,000 POPULATION, BY COUNTIES, FOR THE TEN YEARS ENDING DECEMBER 31, 1910, WITH AVERAGES FOR TEN YEARS.

				_	_	YEAI	RS.				
COUNTIES.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	1909.	1910.	Average for 10 years.
Atlantic County	2.67	2.74	2.81	1.97	2.01	1.60	2.30	1.62	1.13	1.53	2.04
Bergen County	.99	1.08	1.16	1.24	1.10	1.15	1.29	.71	.85		1.07
Burlington County	2.58	2.23	3.61	2.89	2.58		4.41	4.04	2.00	3.31	3.08
Camden County		2.44	1.07		1.81	2.98	2.99	2.00	1.28	1.97	2.11
Cape May County	2.26	.60	.75		1.73	1.65	2.62	.50	1.45	1.52	1.31
('umberland County	. 1.94	2.32	.96	2.29	2.88	1.15	2.29	1.71	1.32	1.99	1.89
Essex County	1.93	2.12	2.04	1.41	1.39	1.79	2.00	1.16			1.63
Gloucester County	2.81	2.17	2.16	1.54	1.16	3.14	1.41	1.39	1.09	1.61	1.85
Hudson County		1.86	1.66	1.99	2.66	1.71	1.58		.78	.98	1.60
Hunterdon County	1.45	2.03	1.74	1.45	.90	1.80	2.44	.62	.62	1.49	
Mercer County	1.75	6.04	5.14			3.26	6.69			4.14	4.08
Middlesex County	1.47	1.95	1.05	2.63	1.55				1.17	.96	1.51
Monmouth County	1.92	2.36	1.63	1.95		2.47					2.17
Morris County	1.06	1.21	1.75	1.00	2.21	1.75		.72			1.82
Ocean County	1.00		.49	2.43		.95	1.41		.92	3.28	
Passaic County	2.19	2.50	2.02	.75	1.14	1.33	1.19			1.16	1.43
Salem County		1.96	1.96				1.51	2.62			
Somerset County	.60	.59	1.16	.86	2.48	1.35				1.80	
Sussex County	.41						1.29				1.63
Union County	2.64		2.82	1.99	1.37	1.66	1.37		1.67	1.71	1.95
Warren County	1.85	4.74	1.05	2.85	1.73	1.95	1.43	.71	1.18	2.78	1.98
The State	1.83	2.17	1.92	1.87	1.68	1.86	2.06	1.60	1.28	1.55	1.78

TABLE 31.—SHOWING DEATHS FROM TYPHOID FEVER IN NEW JERSEY, FOR YEAR ENDING DECEMBER 31, 1910, AND SHOWING ALSO THE NUMBER OF DEATHS FROM THIS DISEASE IN URBAN AND BURAL DISTRICTS, TOGETHER WITH POPULATION AND DEATHS PER 10,000 INHABITANTS.

	Aggregate population.	Deaths from typhoid fever.	Deaths from typhoid fever per 10,000 population.
State	2,537,167 1,742,534	392 275	1.55 1.58
Rural Districts	794,633	117	1.47

TABLE 32.—DEATHS FROM TYPHOID FEVER IN NEW JERSEY, BY AGE PERIODS, FOR TEN YEARS.

	AGE PERIODS.										- -	
YEARS.	Under 1 year.	1 to 10	10 to 20	20 to 30	80 to 40	40 to 50	50 to 60	60 to 70	70 to 80	Over 80	Not stated.	Totals.
1901	2	35	57	107	74	36	17	18	9	1	1	352
1902 1903	3	25 26	72	124 108	92 88	58	33 19	18	8	<u> </u>	1 1	42h 388
1904	2	24	77	108	83	31	85	16	5	3	1 .	384
1905	8	88	73	86	65	49	28	16	6	. i		860
1906	1	34	85	110	67	59	28	11	10	3		408
1907		22	95	149	93	61	27	11	4	2	! .	464
1908	8	86	71	96	73	39	25	16	6	2		367
1909	8	20	63	68	59	47	23	7	6		· 	301
1910	1	22	71	108	85	58	32	13	6	1		392
Totals	24	277	741	1,064	779	477	267	138	60	14	3	3,844

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TABLE 33.—SANITARY DISTRICTS IN NEW JERSEY IN WHICH DEATHS FROM TY-PHOID FEVER OCCURRED DURING THE YEAR ENDING DECEMBER 31, 1910, WITH POPULATION, NUMBER OF DEATHS, SOURCE OF WATER SUPPLY AND NATURE OF DRAINAGE.

Acquackanonk Township			==		
Atlantic Highlands Borrough			deaths from typhoid		Drainage.
Atlantic Highlands Borrough	Acquecksnonk Townshin	11.869	2	Domestic.	No sewers.
Atlantic Highlands Borrough	Atlantic City	46,150	9 i	Dublic	Comona
Atlantic Highlands Borrough	Atlantic Township	1,205	1	Domestic.	No sewers.
Dough	Atlantic Highlands Bor-		1	~	~
Bound Brook Broough G83	ough	1,645	1 1		
Bound Brook Broough G83	Bayonne	00,040	1	Public.	
Bound Brook Broough G83	Belvidere City	2,104	4 .		No sewers.
Bound Brook Broough G83	Roomton City	4.930		Public.	No sewers.
East Amwell Township	Bound Brook Borough	3,970	2	Public.	Sewers.
East Amwell Township	Branchville Borough	663	1	Public.	No sewers.
East Amwell Township	Bridgeton	14,209	4	Public.	Sewers.
East Amwell Township	Burlington City	9 265	1	Public	No sewers
East Amwell Township	Camdan City	94,538		Public.	Sewers.
East Amwell Township	Cedar Grove Township	2,409		Public.	No sewers.
East Amwell Township	Centre Township	3,200	2		No sewers.
East Amwell Township	Cinnaminson Township	1,266	2 !		No sewers.
East Amwell Township	Clayton Borough	1,926	1		No sewers.
East Amwell Township	Cranford Township	3,041	1 2		No sewers
East Amwell Township	Dover Township	7.468	ī		
Freehold Borough	East Amwell Township	1,203	: <u>ī</u>	Domestic.	No sewers.
Freehold Borough	East Brunswick	1,602	$\frac{2}{1}$		No sewers.
Freehold Borough	Edgewater	2,655			Sowers.
Freehold Borough	Elizabeth	0 004	, 14		
Freehold Borough	Englewood	1,629	ï		
Freehold Borough	Fairview Borough	2.441	ī		
Freehold Borough	Florence Township	4,731	3	Domestic.	Sewers.
Freehold Borough	Franklin Township (Glou-	0.609		Domostic	No sowers
Freehold Borough	Frenklin Townshin (War-	2,003	1	Domestic.	"10 penera.
Freehold Borough	ren County)	1,585			
Hawthorne	Freehold Borough	3,233	1		Sewers.
Hawthorne	Galloway Township	1,976			No sewers.
Hawthorne	Garneld	10,213			
Hawthorne	Cloucester City	9,462			Sewers.
Hawthorne	Hackensack	14.050	6		
Hawthorne	Haddonfield	4,142	1		
Hawthorne	Haddon Heights Borough.	1,452	1 2		Sewers.
Hawthorne	Hammonton	5,088	1 1		No sewers.
Hawthorne	Hardyston	5,210 14 408	1		
Holboken	Hewthorne		3		
Holland Township	Hoboken	70.324			Sewers.
11,877	Holland Township	1,699			No sewers.
Lakewood Township 5,149 1 Public. Sewers. Lawrence Township 2,522 1 Domestic. No sewers. Lebanon Township 2,179 2 Domestic. No sewers. Lintden Borough 610 1 Public. No sewers. Little Egg Harbor Township 3,750 1 Public. No sewers. Little Falls Township 2,541 1 Public. Sewers. Lower Township 13,298 9 Public. Sewers. Lower Township 1,188 1 Domestic. No sewers. Lower Alloways Creek 1,252 1 Domestic. No sewers. Lower Penn's Neck 1,544 1 Domestic. No sewers. Madison Borough 4,658 1 Public. Sewers.	Holmdel Township	1,058			
Lakewood Township 5,149 1 Public. Sewers. Lawrence Township 2,522 1 Domestic. No sewers. Lebanon Township 2,179 2 Domestic. No sewers. Lintden Borough 610 1 Public. No sewers. Little Egg Harbor Township 3,750 1 Public. No sewers. Little Falls Township 2,541 1 Public. Sewers. Lower Township 13,298 9 Public. Sewers. Lower Township 1,188 1 Domestic. No sewers. Lower Alloways Creek 1,252 1 Domestic. No sewers. Lower Penn's Neck 1,544 1 Domestic. No sewers. Madison Borough 4,658 1 Public. Sewers.		11,877			
Lakewood Township 5,149 1 Public. Sewers. Lawrence Township 2,522 1 Domestic. No sewers. Lebanon Township 2,179 2 Domestic. No sewers. Lintden Borough 610 1 Public. No sewers. Little Egg Harbor Township 3,750 1 Public. No sewers. Little Falls Township 2,541 1 Public. Sewers. Lower Township 13,298 9 Public. Sewers. Lower Township 1,188 1 Domestic. No sewers. Lower Alloways Creek 1,252 1 Domestic. No sewers. Lower Penn's Neck 1,544 1 Domestic. No sewers. Madison Borough 4,658 1 Public. Sewers.	Jackson Township	267 779			
Activation Act	Lakewood Township	5.149	1		Sewers.
Activation Act	Lawrence Township	2,522	1		No sewers.
Activation Act	Lebanon Township	2,179	2 !	Domestic.	No sewers.
Ship	Linden Borough	610	1	Public.	sewers.
Little Falls Township 3,750 1 Public. Public. Sewers. No sewers. Little Ferry Borough 2,541 1 Public. Sewers. Sewers. Long Branch 13,298 9 Public. Sewers. Sewers. Lower Township 1,188 1 Domestic. No sewers. Lower Alloways Creek 1,252 1 Domestic. No sewers. Lower Penn's Neck 1,544 1 Domestic. No sewers. Madison Borough 4,658 1 Public. Sewers.	ship	388			No sewers.
Lower Township 1.155 1 Domestic. No sewers. Lower Penn's Neck 1.544 1 Domestic. No sewers. Madison Borough 4,658 1 Public. Sewers.	Little Falls Township	3,750			
Lower Township 1.155 1 Domestic. No sewers. Lower Penn's Neck 1.544 1 Domestic. No sewers. Madison Borough 4,658 1 Public. Sewers.	Little Ferry Borough	2,541			
Lower Township 1.155 1 Domestic. No sewers. Lower Penn's Neck 1.544 1 Domestic. No sewers. Madison Borough 4,658 1 Public. Sewers.	Long Branch	13.298			
Lower Penn's Neck 1,544 1 Domestic. No sewers. Madison Borough 4,658 1 Public. Sewers.			1		
Madison Borough 4,658 1 Public. Sewers.	Lower Penn's Neck	1.544	i		
Mauchester Township 1.112 1 Domestic. No sewers.	Madison Borough	4,658	1	Public.	Sewers.
	Mauchester Township	1.112	1 ,	Domestic.	No sewers.

TABLE 33.—SANITARY DISTRICTS IN NEW JERSEY IN WHICH DEATHS FROM TY-PHOID FEVER OCCURRED DURING THE YEAR ENDING DECEMBER 31, 1910, WITH POPULATION, NUMBER OF DEATHS, SOURCE OF WATER SUPPLY AND NATURE OF DRAINAGE—Continued.

	Population, census 1910.	deaths from typhoid fever.	Water- supply.	Drainage.
darlboro Township	1,754	2	Domestic.	No sewers.
faurice River Township	2,124	2 2	Domestic.	No sewers.
dedford Township	1,903	1 1	Domestic.	Sewers.
derchantville	1,996	1 1	Public.	Sewers.
fiddle Township	2,974	, 1	Domestic.	No sewers.
dillstone Township	1,461	1 1	Domestic.	No sewers.
dillville	14,209	2 1	Public. Domestic.	Sewers.
Iontgomery Township Iorristown	1,637 12,507	7	Public.	No sewers. Sewers.
at. Laurel Township	1.573	' i '	Domestic.	No sewers.
Septune Township	5.551	i.	Public.	Sewers.
Newark	347,469	51	Public.	Sewers.
New Brunswick	23,388	5	Public.	Sewers.
Northampton Township	5,652	7	Public.	Sewers.
North Bergen	15,662	i i	Public.	No sewers.
forth Hanover	696	1 1	Domestic.	No sewers.
North Hanover Sutley Borough	6,009	T '	Public.	No sewers.
Ocean City Borough	1.950	1 6	Public.	Sewers.
range	29,630		_Public.	Sewers.
xford Township	3,444	1 1	Domestic.	No sewers.
Passaic City	54,773	9	Public.	Sewers.
aterson	125,600	10	Public.	Sewers.
ensauken Township	4,169	1 2 6	Domestic. Public.	No sewers. Sewers.
Perth Amboy	32,121 13,903	ล์	Public.	Sewers.
Phillipsburg Pittsgrove Township	2,394	l i	Domestic.	No sewers.
Plainfield	20,550		Public.	Sewers.
Plainfield	3,202	3 2 1	Partial.	No sewers.
rinceton	5.136	ī	Public.	Sewers.
Rahway	9.337	$\bar{2}$	Public.	Sewers.
leadington Township	2.569	2 1 3	Domestic.	No sewers.
Red Bank	2,569 7,398	3	Public.	Sewers.
tidgewood Township	5.416	1	Public.	Sewers.
Salem City	6,614	1	Public.	Sewers.
omerville Borough	5,060	ļ <u>ā</u>	Public.	Sewers.
Southampton Township	1,778	1	Partial.	No sewers.
outh Orange Borough	6,014	1	Public.	Sewers.
outh Orange Township	2,979	1 2	Public.	Sewers.
Summit	7,500	50	Public.	Sewers.
nion Township (Bergen	96,815	30	Public.	Sewers.
County)	4.076	1	Public.	No sewers.
Jnion Township (Ocean		2		
County)	982	2	Partial.	No sewers.
rnion Township (Union County)	3,419	1	Public.	Sewers.
ernon Township	1.675	1	Domestic.	No sewers.
oorhees Township	$\frac{1.174}{3.817}$, i '	Domestic.	No sewers.
	3,817	1	Domestic.	No sewers.
Veehawken Township	11,228	1 2	Public.	Sewers.
Vest New York	1,174 3,817 11,228 13,560	. 1	Public.	Sewers.
Venhawken Township Vest New York Vinslow Township Voodhridge Township	1.870	1	Public.	_ Sewers.
Cinalow Compahin	2,919	1	Domestic. Public.	No sewers.

70 REPORT OF STATE BOARD OF HEALTH.

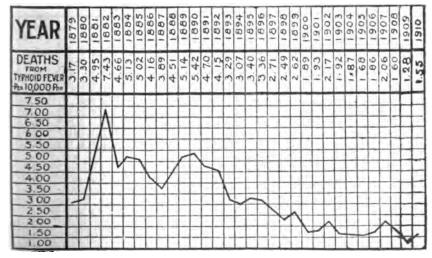
TABLE 34.—DEATHS FROM SCARLET FEVER, DIPHTHERIA AND TYPHOID FEVER IN NEW JERSEY FOR THE THIRTY-TWO YEARS ENDING DECEMBER 31, 1910, COMPARED WITH TOTAL DEATHS.

		-		SCARLE	F FEVER	DIPHTI	HERIA.	TYPHOID	FEVER.
YEARS.	Popula- tion.	Total deaths.	Death- rate per 1,000 popula- tion.	Number of deaths.	Death- rate per 1,000 popula- tion.	Number of deaths.	Death- rate per 1,000 popula- tion.	Number of deaths.	Death- rate per 1,000 popula- tion.
1879		20,440	• 18.07	627	.61	1,100	1.09	324	.32
1880	1 190 600	18.967	16.77	573	.51	873	.77	373	.33
1881	1,100,002	20.810	18.39	499	.43	1,128	.97	574	.49
1882			22.90	1,806	1.01	1,472	1.24	884	.74
1883		23,310	20.60	853	.71	1.146	.95	564	.47
1000		23,310	19.20	547	.44	1,146	.82	640	.51
1884 1885	1 07- 000							642	.50
1885	1,278,038	23,807	18.68	646	.51	1,496	1.17		
1886		22,784	17.80	222	.17	1,803	.99	545	.42
1887 1888	,	24,331	19.04	255	.19	1,527	1.14	522	.39
1888	·	27,178	17.01	574	.42	2,036	1.48	620	.45
1889 1890		26,548	18.99	533	.38	1,574	1.12	724	.51
1890	1,441,017	28,530	19.80	209	.15	1,575	1.09	782	,54
1891		28,840	19.50	288	.19	1,787	1.17	695	.47
1892	!	82,685	21.62	. 1,008	.67	1,776	1.17	628	.42
1893		30,596	19.88	445	.29	1,677	1.09	506	.33
1894	1	30,004	19.09	272	.17	1,294	.82	485	.31
1895	1.672.942	30,634	18.31	264	.16	1,464	.88	568	.34
1896		80,767	17.90	183	.11	1,758	1.02	577	.34
1897		29.822	16.90	203	.12	1,382	.78	478	.27
1898		27.337	15.11	201	.11	950	.52	450	.25
1899		30.999	16.70	187	.10	777	.42	486	.26
1900	1 992 860		16.62	220	.12	927	1 .49	856	.19
1901		31,739	16.48	179	.09	688	.86	352	.19
		81,319	15.91	217	.11	683	.35	428	.22
1902			15.51	299	.15	748	.37	388	.19
1903		31,820				0.00	.45	384	.19
1904			17.14	416					.17
1905		33,864	15.79	164	.07	699	.33	360	
1906	ļ	3 5,670	16.24	193	.09	678	.31	408	.19
1907		37,408	16.63	286	.13	632	.29	464	.21
1908		35,597	15.47	396	.17	585	.23	367	.16
1909		36,359	15.46	338	.14	610	.26	301	.13
1910	2,587,167	39,494	15.57	229		728	.29	392	.16

TABLE 35.—SHOWING DEATHS FROM TYPHOID FEVER AND DEATHS PER 10,000 INHABITANTS FROM TYPHOID FEVER IN THE COUNTIES OF NEW JERSEY FOR YEAR ENDING DECEMBER 31, 1910, ALSO CHART SHOWING DEATHS FROM TYPHOID FEVER PER 10,000 INHABITANTS IN THE COUNTIES OF NEW JERSEY FOR SAME PERIOD.

NAMES OF COUNTIES.	Number of deaths from typhoid fever.	Deaths from typhoid fever per 10,000 inhabitants.	Chart showing deaths from typhoid fever per 10,000 inhabitants.
Atlantic County	11	1.53	
Bergen County	16	1.16	
Burlington County	$\frac{10}{22}$	3.31	
Camden County	28	1.97	
Cape May County	3	1.52	
Cumberland County	11	1.99	
Essex County	62	1.21	
Gloucester County	6	1.61	
Hudson County	5 <u>0</u>	.93	
Hunterdon County	้อั	1.49	
Mercer County	$5\overline{2}$	4.14	·
Middlesex County	11	.96	
Monmouth County	$\tilde{21}$	2.22	
Morris County	10	1.34	
Ocean County	7	3.28	
Passaic County	25	1.16	
Salem County	4	1.48	
Somerset County	7	1.80	
Sussex County	5	1.87	
Union County	24	1.71	
Warren County	12	2.78	-
		-	_

CHART SHOWING DEATHS FROM TYPHOID FEVER IN NEW JERSEY, PER 10,000 POPULATION FOR THIRTY-TWO YEARS.



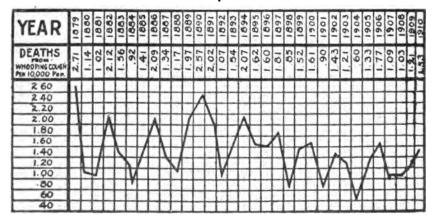
WHOOPING COUGH.

For the year ending December 31st, 1910, 389 deaths from whooping cough took place in New Jersey, and the death-rate per 10,000 population for the year was 1.53. It will be shown by the accompanying chart that periodical outbreaks of this disease have occurred at various intervals during the past thirty years; however, the death-rate for the past fifteen years is less than for the fifteen years preceding.

TABLE 36.—SHOWING DEATHS IN NEW JERSEY FROM WHOOPING COUGH, WITH AGES OF DECEDENTS, FOR YEAR ENDING DECEMBER 31, 1910.

	=	1	·	•,-	
AGE PERIODS.	Deaths from whooping cough.	AGE PERIODS.	Deaths from whooping cough.	AGE PERIODS.	Deaths from whooping cough.
Under 1 month		20 to 25		50 to 55	
	23			50 to 55	
Under 1 year	194	25 to 30		55 to 60	
1 to 5	169	30 to 85		60 to 70	
5 to 10	10	35 to 40		70 to 80	1
10 to 15		40 to 45			
15 to 20					
10 10 20		40 00 00		Total	389

CHART SHOWING DEATHS FROM WHOOPING COUGH IN NEW JERSEY, PER 10,000 POPULATION, FOR THE THIRTY-TWO YEARS ENDING DECEMBER 31, 1910.



SCARLET FEVER.

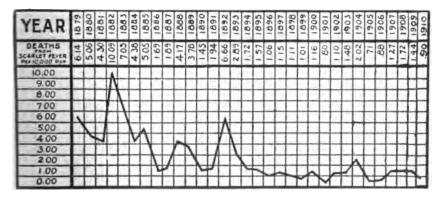
The number of deaths from scarlet fever for the calendar year 1910 was 229, and the death-rate per 10,000 inhabitants .90, which is the lowest death-rate during the past four years.

It is important that all physicians promptly report cases of scarlet fever, and other communicable diseases occurring in their practice, to the local board of health, in order that proper investigation may be made and precautions taken to prevent the spread of the same.

TABLE 37.—SHOWING DEATHS IN NEW JERSEY FROM SCARLET FEVER WITH AGU AT DEATH, FOR YEAR ENDING DECEMBER 31, 1910.

AGE PERIODS.	Deaths from scarlet fever.	AGE PERIODS.	Deaths from scarlet fever.	AGE PERIODS.	Deaths from scarlet fever.
Under 1 month	₁	25 to 80		60 to 70	
Under 1 year	10	30 to 85	ă	70 to 80	
1 to 5	109	35 to 40	i	80 to 90	
5 to 10	54	40 to 45		Over 90	
10 to 15	21	45 to 50		, 0.02 (0	
15 to 20	12	50 to 55			
20 to 25	12	55 to 60		Total	229

CHART SHOWING DEATHS FROM SCARLET FEVER IN NEW JERSEY, PER 10,000 POPULATION, FOR THIRTY-TWO YEARS.



MEASLES.

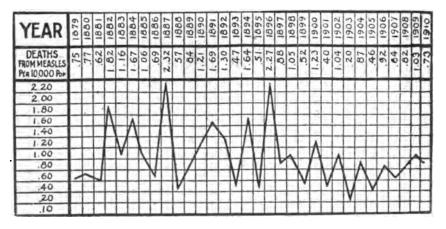
Deaths from measles for the year ending December 31st, 1910, show a decrease from the previous year. There is very little change in the average death-rate from this disease, and the precautions necessary to prevent its spread are well known to local boards of health.

Measles is a most serious disease of childhood, and it is important that cases of the same be carefully reported, as prompt and decisive action is necessary to prevent local epidemics.

TABLE 38.—SHOWING DEATHS IN NEW JERSEY FROM MEASLES, WITH AGE AT DEATH, FOR YEAR ENDING DECEMBER 31, 1910.

- 1					
AGE PERIODS.	Deaths from measies.	AGE PERIODS.	Deaths from measles.	AGE PERIODS.	Deaths from measles.
Under 1 month	5	25 to 30		60 to 70	
Under 1 year	40	30 to 85		70 to 80	
1 to 5	118	35 to 40	1	80 to 90	
5 to 10	14	40 to 45		Over 90	
10 to 15	2	45 to 50			
15 to 20	4	50 to 55		•	
20 to 25	· · · · · · · · · · · · · · · · · · ·	. 55 to 60		Total	186

CHART SHOWING DEATHS IN NEW JERSEY FROM MEASLES, PER 10,000 POPULATION FOR THIRTY-TWO YEARS ENDING DECEMBER 31, 1910.



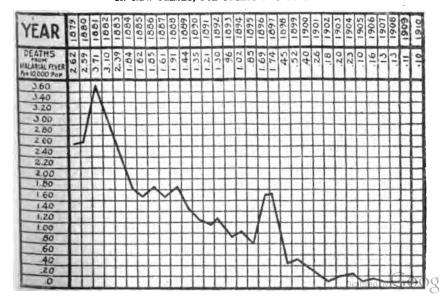
MALARIAL FEVER.

The number of deaths from malarial fever for the calendar year 1910 was 25, the same number as occurred the previous year. By referring to table 39 and also the accompanying chart in reference to malarial fever it will be shown that during the past thirty years there has been a decided decrease in the number of deaths from this disease.

TABLE 39.—SHOWING DEATHS IN NEW JERSEY FROM MALARIAL FEVER FOR THIRTY-TWO YEARS.

YEARS.	Deaths from malarial fever.	YEARS.	Deaths from malarial fever.	YEARS.	Deaths from malarial fever.
1879	268	1890	195	1901	50
1880	293	1891	180	1902	36
1881	431	1892	198	1903	40
1882	379	1893	148	1904	47
1883	290	1894	162	1905	21
1884	230	1895	144	1906	33
1885	209	1896	119	1907	29
1886	243	1897	132	1908	30
1887	217	1898	82	1909	25
1888	264	1899	96	1910	25
1889	203	1900	84		_,,

CHART SHOWING DEATHS FROM MALARIAL AFFECTIONS, PER 10,000 INHABITANTS, IN NEW JERSEY, FOR THIRTY-TWO YEARS.



SMALL-POX.

No deaths from small-pox are reported as having occurred in this State for the year 1910, and in fact New Jersey has been particularly free from any serious epidemic of this disease for several years. It is important that local boards of health require vaccination, and if one or more cases of the disease appear in any community, revaccination of all those who have come in contact with any person having the disease should be required.

TABLE 40.—SHOWING DEATHS IN NEW JERSEY FROM SMALL-POX FOR THIRTY-TWO YEARS.

YEARS.	Deaths from small-pox.	YE	ARS.	Deaths from small-pox.	YE	ARS.	Deaths from small-pox
1879		1890			1901		142
1880	15	1891			1902		432
881	254	1892		· 38	1903		16
1882	367	1893		43	1904		24
1883	54	1894		11	1905		1
1884	7	1895		23	1906		1
1885	$\dot{2}$	1896		2	1907		1
1886	4	1897			1908		
887	5	1898			1909		2
888	5	1899			1910		
1889	3	1900		5			

CANCER.

The number of deaths from cancer for the calendar year 1910 was 1,838, and the death-rate per 10,000 inhabitants, 7.24. The following tables and chart show a gradual increase in the number of deaths from this disease in New Jersey for the past thirty-two years.

TABLE 41.—SHOWING DEATHS FROM CANCER IN NEW JERSEY FOR THIRTY-TWO YEARS.

				=- =							
YEARS.		1879.	1880.	1881.	1882.	1888.	1884.	1885.	1886.	1887.	1888.
Deaths from cancer Deaths from cancer per population	10,000	378 3.70			402 8.87		484 3.87	498 3.89	546 4.15		612
YEARS.	1889.	1890.	1891.	1892.	1898.	1894.	1895.	1896.	1897.	1898.	1899.
Deaths from cancer Deaths from cancer per	579	640	642	688	728	781	770	811	857	852	946
10,000 population	4.11	4.41	4.84	4.55	4.69	4.68	4.60	4.71	4.83	4.70	5.10
YEARS.	1900.	1901.	1902.	1908.	1904.	1905.	1906.	1907.	1906.	1909.	1910.
Deaths from cancer Deaths from cancer per	921	1,042	1,081	1,132	1,125	1,282	1,389	1,466	1,585	1,663	1,88
10,000 population	4.84	5.43	5.24	5.61	5.46	5.98	6.32	6.52	6.67	7.07	7.24

TABLE 42.—DEATHS FROM CANCER IN NEW JERSEY, BY AGE PERIODS. FOR TEN YEARS.

	AGE PERIODS.												
YEARS.	Under 1 year.	1 to 10	10 to 20	20 to 30	80 to 40	40 to 50	50 to 60	60 to 70	70 to 80	Over 80	Not stated.	Totals.	
1901 1902	1	6.	9 5	19 24	85 92	196 190	280 822	240 216	159 136	47 81	1 7	1,048 1,081	
1903	7	1 0	2 9	22 21	79 81	179 168	293 286	308 302	177 199	57 47	5	1,1 32 1,125	
1905 1906	. 6	15 12	11 6	22 25	87 104	289 241	294 350	858 850	190 225	64 74	1	1,282 1,389	
1907 1908 1909	1 2	8 13 9	9	28 27 26	91 118 104	244 260 260	877 877 487	369 414 485	262 286 282	77 80 104		1,466 1,535 1,663	
1910	2	14	10	82	106	299	462	499	816	98		1,838	

TABLE 43.—DEATHS FROM CANCER IN NEW JERSEY, SHOWING ORGANS AFFECTED AND AGE AT DEATH, FOR THE YEAR ENDING DECEMBER 31, 1910.

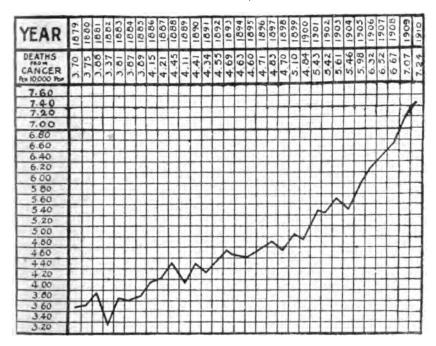
	month.	year.	1			15						45	50	55	60	70	80	0240	stated.	·
CANCER.	nder 1	Under 1	5	10	to 15	to 20	to 25	to 30	to 35	to 40	to 45	to 50	to 55	60 60	to 70	to 80	to 90	Over 90	Age not	Totals.
Of the mouth	٠		2	[,	1		1	1	6	6	10	16	18	16	12	1		90
Of the stomach and liver	' 	 	4			2	4	9	11	26	45	69	99	108	264	151	87	5		831
rectum	i ,		1		¦	٠	4	2	3	5	16	16	21	19	61	39	6		٠	198
Of the female genital	ļ				1					23	88 15			49	74	42		· ·····		350
Of the breastOf the skin	ļ		ï			, 1			6	í		20	24	24 2	40 9	22 7	11 6	4	•••	176 28
Others		2	3	3	1	5	8	1	6	3	12	14	12	22	83	89	8		٠	167
Totals	١	-2	11	3	2	8	12	<u>20</u>	40	6	132	167	222	240	499	316	88	10		1,838

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TABLE 44.—DEATHS FROM CANCER IN NEW JERSEY FOR THE YEAR ENDING DECEMBER 31, 1910, PER 10,000 POPULATION, BY COUNTIES AND BY CITIES OF OVER 5,000 INHABITANTS.

NAME OF PLACE.	Deaths from cancer.	Deaths per 10,000 pop- ulation.
		1
Atlantic County	18	6.99
Bergen County	41 54	8.88 5.58
Englewood	3	3.02
Englewood Garfield Hackensack	1	.98
Rutherford	6	4.27 5.68
Burlington County	58	10.74
Bordentown Burlington City.	4	9.41
Camden County	19 19	9.60 5.00
Camden County. Camden City Gloucester City Cape May County Cumberland County	68	7.19
Gloucester City	3	3.17
Cumberland County	21 24	10.63 8.42
Dridgeton	1 0	7.04
Millville	9	7.23
Essex County	22 6	5.25 3.98
Bloomfield East Orange. Irvington	29	8.44
Irvington	10	8.42
Montclair Newark	14 286	6.50 8.23
Orange	34	11.47
West Orange	6	5.46
Hudson County	84 28	9.10 6.92
Hudson County. Bayonne Harrison	28	5.04
Harrison	10	6.90
Jersey City	56 176	7.96 6.57
Kearny	10	5.86
Town of Union	14 27	6.66 7.63
West Hoboken West New York Hunterdon County	8	5.90
Hunterdon CountyLambertville	3 <u>3</u> 5	11.41 10.74
Mercer County	15	6.83
Princeton	8 69	5.84 7.13
Middlesex County New Brunswick Perth Amboy	21	4.05
New Brunswick	$\begin{array}{c} 32 \\ 12 \end{array}$	13.68 3.74
South Amboy.	12 5	7.14
Monmouth County	47	7.36
Asbury Park	5 18	4.93 13.54
Long Branch	10	13.52
Morris County Dover	34	6.21 8.03
Morristown	6 16	12.79
Ocean County	17	7.97
Passaic County Passaic City	$\begin{array}{c} 20 \\ 32 \end{array}$	5.63 5.84
Paterson	80	6.37
Salem County	7 5	3.48 7.56
Salem County. Salem City. Somerset County.	30	9.17
North PlainfieldSussex County	2 28	3.27 10.46
Union County	17	7.40
Elizabeth	53 20	7.22 9.73
Plainfield	-8	8.57
Summit	8	10.67
Westfield	19	6.23 6.49
Phillipsburg	18	5.75
Total in cities of over 5,000 inhabitants	1,272 1,838	
Total for State	1,838	7.24
Mate per 10,000 population (State)		<u> </u>

CHART SHOWING DEATHS IN NEW JEBSEY FROM CANCER, PER 10,000 POPULATION. FOR THIRTY-TWO YEARS, 1879-1910.



SUICIDE.

The number of deaths from suicide for the year was 444, an increase of 12 over the previous year. The tables which follow show the number of suicides in New Jersey for the past ten years, and also the nationality and means of suicide, covering the deaths which occurred during the calendar year 1910.

TABLE 45.—SHOWING DEATHS IN NEW JERSEY FROM SUICIDE FOR TEN YEARS, 1901-1910.

YEARS.	Deaths from suicide.	YEARS.	Deaths from suicide.
1901	265	1906	338
1902	$\begin{array}{c} 203 \\ 271 \end{array}$	1906	387
1903	314	1908	448
1904	33 0	1909	432
1905	354	1910	. 444

TABLE 46.—DEATHS IN NEW JERSEY FROM SUICIDE, SHOWING MODE OF DEATH AND AGE AT DEATH, FOR THE YEAR ENDING DECEMBER 31, 1910.

•	Ĺ	AGE AT DEATH.											· -					
MODE OF DEATH.	1 to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	40 to 45	45 to 50	50 to 55	55 to 60	60 to 70	70 to 80	80 to 90	Over 90	Not stated.	. [
By poison. By asphyxia. By strangulation.				7 4 2	9 5	11 5	13 3 6	19 7 5	11 14 4	12 8 7	9 5 9	12 7 3	12 7 14	5 6 5	1	2		123 72 67
By drowning		*****			20	7	13	15 3	5 10 3	1 11 4	13	5 7 3	15	5 1	1			22 121 25 8
By precipitation from height By crushing Others				****		1	****	1	1	*****	1	*****	1	11230 11230 11131	****	*********	 	5
Totals	. 9	1	3	19	43	27	40	55	49	43	43	37	51	25	4	2		444

TABLE 47.—SHOWING NUMBER OF DEATHS BY SUICIDE RECORDED IN NEW JERSEY, BY CITIES, AND BY COUNTIES, EXCLUSIVE OF CITIES, FOR THE YEAR ENDING DECEMBER 31, 1910.

	COUNTRY OF BIRTH.													
NAME OF PLACE.	United States.	England.	i	Germany.	Ireland.	Italy.	Scotland,	Hungary.	Sweden.	Russia.	Holland.	Other foreign.	Not stated.	Total.
Atlantic County				l	l			[.]		١	Ī	١	اًٰ	4
Atlantic City Bergen County	11	1	1		[• • • •		1						14 21 1 1 1 2
Englewood		: : :		١٠٠٠	· · i	• • •	• • •					• • •	$ \cdots $	21
Garfield								i	l:::	l:::		:::		i
Hackensack Rutherford	 1 2	• • •]] · · ·				1
Burlington County		• • •			• • •		• • •					• • •		4
Bordentown	····i						:::	l:::	:::	l:::	:::	:::	1:::	ī
Burlington		· · ·						 .						<u>.</u>
Camden City	8	• • •		***	• • •		• • •		• • •					
Gloucester City	1	:::	:::	l *		:::		l:::	1:::				1	13 1
ape May County	$[\cdots \overline{\cdot}]$			١٠٠٠	[[[l		(1
nmberland County Bridgeton	••••	• • •	• • •	 · · ·		 • • •			∤ ∙∙∙	J - • •	ļ	J	J) 2
Millville	í	: : :		:::									1:	2 2 1 6 1 5 5
Essex County								:::		:::	: : :	:::	:::	6
Bloomield	1 4	• • •			· · :				ļ. . .]]		1
East Orange	4			· i	1									5
Monicial	3			1	i				l:::	:::	l:::		1:::	5
Newark	27	3		18	7	2]	1		5)	1	5	69
Orange	3	• • •	• • •				• • •						• • •	8
loucester County														••••
rudaou County									:::		i	:::	:::	18
Bayonne	2	• • •			• • •			ا			ļ]	ļ	2 1
Hoboken	5		ı i	8	··•							l··i	· · · · · · · · · · · · · · · · · · ·	1,1
Jersey City	37	3		12	3	···i	···i	i				1		
Kearny	3						1	١]	i	i	i	4
Kearny	3	1		3				1			١٠٠٠	ļ	ي. ٠٠.	4 6 5 3
West New York	i	i		i	:::	1				• • •			1	1 0
luntercon County]			j)			1)	\	۱ ا	i	1:::	5
Lambertville	[• • • •]							ļ · · ·	[[• • •		ļ	[
			:::			• • •	• • •				• • •	ļ ;	ļ	3
Trenton	9		j	i i	3			3	i : : :	3			3	3 2 22 8 5 5 1 6
Trenton Middlesex County New Brunswick Perth Amboy South Amboy	<u>ا</u> ي ۱۰۰۰	• • •			• • •			١				ļ	1	i -8
Perth Ambov	3	:::	:::	· · · · · · · · · · · · · · · · · · ·			• • •	···i				ļ · · ·	2	5
South Amboy	ī		:::		l:::	l:::								1 1
Monmouth County	اي. ٠٠٠		ļ <i>.</i>	:::	[j	i	1	Ê
Long Branch	2		• • •	• • •	• • •						ļ	!	1	2
South Amboy. South Amboy. Monmouth County. Asbury Park. Long Branch. Red Bank. Morris County. Dever Morristown	1	i	i	i : : :	i : : :								• • •	
lorris County	ایسیا		ļ	ļ	ļ				1:::		i	1:::	l:::	6
Morristown	1		· • •	ļ		· · ;				[ļ		1
cean County			l			1		ļ· · ·					ļ	1
Passaic County	· · · i		i	i		i:::		l:::	i	i : : :	i	i: : :		5
Ocean County Passaic County Paterson Release County	1 1		ļ	ļ <u>.</u>	ļ <u>.</u>	٠.٠		2		1	1	1	i	5 6
	10	3	• • •	4	4	8		1	1	1	1	1	1	80
Salem City							• • •				• • •			6
Salem City Somerset County North Plainfield	[<u>.</u>		ļ	ļ	ļ	ļ		į	i	 	i	į: : :	1:::	
NRREY COUNTY	1	• • •		• • •	· · · ·							ļ	ļ	3 1 3 2
nion County	::::						'							3
nion County Elizabeth Plainfield	7	3	i	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		:::		1:::					18
Plainfield	4						1	ļ	j	ļ		:::		15
Rahway Summit	از…ا	• • •					• • •		;		• • •		$[\cdots]$	
Westfield	1	:::				1	•		. 1				• • •	g
Warren Connix	<u></u>		i	ļ					i:::	:::	II	i:::		6 2 4 2
Phillipsburg	2		۱۰۰۰,	• • •	$[\cdots]$	• • •	إ٠٠٠إ		J		Digit	ized	ру 🥄	$p(\mathbf{Q}_2)$
Totals	169					10		18		10	2	I		

BRIGHT'S DISEASE.

The following table shows the number of deaths from Bright's disease in New Jersey for the calendar year 1910, and also contains the figures showing the deaths from this disease in counties and certain cities of New Jersey for the past ten years.

TABLE 48.—SHOWING NUMBER OF DEATHS FROM BRIGHT'S DISEASE IN NEW JER-SEY, IN COUNTIES, EXCLUSIVE OF CITIES, AND IN CITIES OF OVER 5,000 IN-HABITANTS, FOR TEN YEARS.

AMES OF COUNTIES	DEATHS FROM BRIGHT'S DISEASE.													
and Cities.	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910				
lantic County Atlantic City	13 36	14 82	15 34	21 38	25 60	21 66	26 66	25 81	25 78	27 80				
ergen County	25	22	31	47	36	61	49	50	62	60				
Englewood	Ž	5	7	5	7	5	7	11	62 12	10				
Garfield				8		12	2 9	4 8	1 17	12				
Hackensack Rutherford	8		8		16	12			12	12				
Irlington County Bordentown	40	28	39	47	46	46	44	75	47	67				
Bordentown		iò	· · · iż	10	$\begin{array}{c} 3 \\ 12 \end{array}$	11 10	14	10	13	19				
Burlington	12	17	29	20	27	25	31	38		51				
mden County Camden	64	87	84	106	113	113	181	114	133	132				
Gloucester City	2 2	5	11 10	1 6	11		18	15 15	12 24	17 21				
ipe May County imberland County	15	16	22	12 27	19		21	24	26	26				
		22	24	24	13	15	19	12	21	30				
Miliville	7 17	5 15	3 19	23	$\frac{12}{21}$	26	9 26	15 28	8 31	47				
Bloomfield	5	6	1	5	7	20	11	10	12	7.6				
East Orange	11	20	20	20	15	12	25	24	15	30				
Millyfile Sex County. Bloomfield East Orange Irvington Montclair Newark Orange	1 11	4 5	8	6 13	$\frac{2}{11}$		7 14	6 12	9 23	11 21				
Newark	249	255	308	287	279	359	403	328	398	377				
Orange		20	38	20	18 7	34	36	30	33	28				
West Orange oucester County udson County	17 17	12	32	5 23	28	7 38	$\frac{7}{32}$	$\frac{4}{33}$	6 36	31				
adson County	39	13	22	29	36	27	49	36	35	36				
	16	21	25	23 9	29 9	31 12	38	39 12	28 9	62				
Hchoken	3 41	57	7 78	80	75	112	12 111	67	87	88				
Jersey City	140	158	179	194	236	279	293	266	299	285				
Kearny	; ;	1 .7	1 7	10	6 14	10	.8	15 20	12 25	15				
Bayonne Harrison Hcboken Jessey City Kearny Town of Union West Hoboken. West New York.	14	12 21	19 14	13 12	29	16 23	$\frac{24}{27}$	40	23 29	11 35				
West New York		4	9	[5	8	5	5	8	12	l €				
		12	22	26	28	43	42	31 1	34	40				
Lambertville	6	13	9	9	8	24	18	15	13	33				
Princeton				· · · · ·			3	4	6	- 4				
Trentoniddlesex County	3 22	54 18	60 20	71 18	74 25	87 25	103 41	88 32	96 35					
New Brunswick.	18	19	26	19	28	13	23	19	29	22				
Dorth Amhor	0		9	. 5	17	23	22	20	18	26				
South Amboy onmouth County Asbury Park Long Branch Red Bank	$\begin{array}{c} 2 \\ 42 \end{array}$	5 50	3 55	57	48	62	56	8 59	5 60	11 80				
Asbury Park						<i>.</i>	11	17	13	21				
Long Branch	13 4	10 2	13 4	8	13 4	23	23 8	19 7	26 9	29 11				
orris County	30	26	44	85	36	38	47	42	36					
Dover	4	4	6	7	8	4	13	6	10	10				
Morristown	8 11	12	8 14	13 13	10 16	10 16	13 23	14	19 33	24				
ssaic County	17	12 12 6	11	1 9	17	14	24	12 20	13	23				
Passaic County	11	15	12 75	21	20	31	35	45	41	33				
Paterson	44 14	60 11	75 16	70 14	84 9	125 13	168 16	153 15	135 17	135 20				
Salem City		4	5	7	9	5	7	7	3	7				
Salem City merset County North Plainfield.	17	22	17	17	19	26	21	17	25	32				
Bsex County	3 6		13	2 9	$\frac{4}{12}$	3 14	12 16	20 20	8 13	14 15				
ulon (lounty	10	9	15	11	17	17	16	17	16	20				
Elizabeth Plainfield	48	28		50	51	73	67	59	65	50				
Rahway	14 9	15 14	9 12	15 9	13 6	22 7	29 12	20 9	$\frac{21}{12}$	28 11				
Summit	í	4	17	5		2	3	5	4	10				
Westfield	; ;						37	14	29	5				
arren County Phillipsburg	14 5	16 4	17 4	24 8	21 5	19 14	37 13	17 9	29 14	28 9				
t							2.5.0	0.000	2,486					

Report of the Division of Medical and Sanitary Inspection.

A. CLARK HUNT, M.D., CHIEF.

To the Board of Health of the State of New Jersey:

Gentlemen—I have the honor to submit the following report of the Division of Medical and Sanitary Inspection for the year ending October 31st, 1911.

The duties devolving upon this department consist of the oversight of local boards of health, the inspection of all public institutions, investigation of epidemics, the control over epidemics occurring in State institutions, and the investigation of nuisances. The scope of the work outlined is such that it is impossible to cover the various subjects satisfactorily in any one year. An effort, however, has been made to deal with epidemics, and matters of immediate importance and to systematize the inspections of institutions and the supervision over local boards of health so that as much work may be accomplished within the year as time and the number of inspectors assigned to the work will permit.

LOCAL BOARDS OF HEALTH.

The direct control over infectious diseases, abatement of nuisances and general supervision over conditions directly affecting health is placed by statute with local boards of health, subject to such supervision as the law provides for, by the State Board of Health. For the enforcement of the powers thus conferred upon local boards of health proper organization is required and the adoption of ordinances are necessary. Without the legal adoption of ordinances local boards have little or no power to enforce protective health measures, and without a proper organization their

efforts are not likely to be attended with the desired results. As the proper organization of local boards of health is therefore of great importance, an effort has been made during the year to confer with as many of these boards as possible for the purpose of learning the character of the work which they were doing and wherein they failed to exercise their powers or to comply with the mandatory provisions of the health laws. We present herewith a summary of this work which, we believe, evidences the necessity for its continuance and shows that progress has been made in raising the efficiency of the work of some of the boards visited.

During the year ending October 31st, 1911, representatives of the Division of Medical and Sanitary Inspection have attended twenty-eight meetings of local boards of health and have met in 181 conferences with local board of health officials. These meetings or conferences were attended either upon special request from a local board of health for assistance or supervision in handling some local health problem, or arranged for by appointment on the part of this division following the receipt of complaint or information of inactivity on the part of local officials in enforcing health measures or failure on the part of local officials to comply with the provisions of the statutes.

Opportunity was taken at these meetings to bring to the attention of local boards the laws relative to public health administration, especially with reference to the matter of local organization, the reporting of cases of communicable diseases, and the keeping of records, the law requiring reports of certain contagious diseases occurring on dairy premises directly to the State Board of Health, and the provisions of the law regarding the employment of sanitary inspectors.

In townships much confusion was found to exist as to the duties of the assessor and the medical member of the local board of health. In a number of instances it has been presumed that the assessor was by virtue of his office, the inspector of the board, and the executive work of the board was left largely in his hands; the same statement is true in regard to the medical member of the board; indeed, the latter was frequently regarded as the board's adviser, generally receiving some remuneration for such service. The appointment of the medical member was generally found to be for a term of one year despite the fact that the law specifically fixes his term of office as three years, and further

provides that the physician appointed by the township committee becomes a member of the township board of health. Numerous erroneous ideas and practices similar to those above noted which have been handed down by retiring boards and officials to those elected to take their places, have been corrected at these meetings and conferences held with local board officials. Technical questions relating to public health administration have been dealt with by the visiting representatives or referred to the chief of this division for consideration and action. Information concerning the supervision and control over reported cases of communicable diseases has been much sought after by local boards in townships and in some of the smaller municipalities. The exact legal relation existing between the State Board and local boards of health, and just what aid and assistance the former can render the latter in the enforcement of health laws and ordinances, was not clearly understood by many of the boards visited during the past year. Almost invariably questions relating to the enforcement of the vital statistics laws were raised, and the statutes covering these subjects was either pointed out or the inquirer advised to communicate with the Bureau of Vital Statistics.

The necessity for the adoption of suitable local health ordinances has been urged and circulars and other available printed matter have been supplied to officials engaged in local health work. Concluding a meeting or conference a request has generally been made that any action taken by the local board as a result of the visit of the representative be reported to the State Board of Health. The communications received as a result of this request show that good results have usually followed these conferences. This method of supervision over local boards of health is really a continuance of the work begun the previous year, and the results are already noticeable and highly encouraging as shown by the more detailed account which follows:

The method which has been perfected and is now in operation to secure more uniform compliance with the law relating to reports of certain communicable diseases is showing results. The operation of the system of checking death certificates of persons dving from reportable diseases, against reported cases of these diseases on file in the office of the State Board, serves the purpose of drawing attention to the sanitary districts in which the law is being ignored or imperfectly complied with. It also leads to

an inquiry which results in definitely fixing the responsibility upon the proper persons in cases where non-reported cases result in death. It is hoped by the uninterrupted operation of this system to bring about a degree of compliance with the law throughout the State that will furnish morbidity records complete enough to be of some practicable value in public health work.

Investigations have been made during the past year of 156 deaths resulting from reportable diseases in which no report of the case had been received at the office of the State Board. Seventy-one of these deaths resulted from typhoid fever, 35 from diphtheria, 42 from tuberculosis, 2 from scarlet fever, 4 from anterior poliomyelitis or infantile paralysis, and 2 from rabies. In addition to these, 204 cases of communicable diseases, in which no reports were made, were investigated to learn who had been negligent in the discharge of their duties in failing to report these cases. Investigations were, therefore, made of 260 cases of notifiable diseases that were not reported to the State Board as required by law. Failure to receive these reports may be assigned to various causes, death or removal of officials responsible for receiving and transmitting reports to the State Board of Health; the death of the patient before positive diagnosis had been made: failure of local boards to designate a proper official to receive and transmit reports; verbal reporting by attending physicians to local board of health officials who fail to properly note the same on their record books; cases in which the patient was transferred to hospital for treatment and no report being made by either the attending physician or the hospital authorities, &c.

Investigations have been conducted at a number of hospitals, selected at random, to ascertain what proportions of the cases of notifiable diseases treated therein are reported to the boards of health in the districts in which the cases occurred. The information brought out by this inquiry shows that in a number of hospitals typhoid fever cases are never reported, and that the reports in other cases are filed with the local boards of health in which the hospital is located other than with the officials of the sanitary districts from which the case was sent to the hospital and in which it should be recorded. The need of some workable plan to secure correct reports in these cases is apparent.

It is interesting to note that, next to tuberculosis, typhoid fever is the one disease in which reports are most frequently neglected,

and a general lack of appreciation of the necessity of reporting cases of typhoid fever is found to prevail among the health authorities of rural districts.

Direct results of the efforts made to secure more uniform compliance with the law requiring reports of notifiable diseases are shown in the following figures:

During the year 1909, 10,562 cases of notifiable diseases were reported to the State Board of Health, exclusive of chicken pox and infantile paralysis; in the year 1910, 14,322 cases were reported, and in the year ending October 31st, 1911, 14,913 cases were reported. In 1909 reports were being received from 191 sanitary districts, and in 1911, 378 districts, showing an increase of 58.4 per cent. in the number of districts reporting in 1911 over those from which reports were received during the year 1910.

There are in the State of New Jersey 476 sanitary districts. No communicable diseases have been reported during the year in 98 of these districts. In 56 of the latter number no history was obtained of any communicable diseases having occurred, other than tuberculosis, so that during the year the State Board of Health is apparently receiving reports from 90.2 per cent. of the sanitary districts in the State. Although the reports are very incomplete, we believe enough work has been done to point out where the chief defects lie and that a continuance of our efforts, but barely begun, will result in placing the State of New Jersey among the foremost in securing somewhat reliable morbidity records. With the inauguration of the tuberculosis work, provided for by a special act of the Legislature, it is of the utmost importance that the law providing for the reports of cases of tuberculosis shall be fully complied with, and a special effort will be made to accomplish this result.

Histories of the organization and general working methods of local boards of health have been obtained from 120 sanitary districts during the past year. This work is being continued and we hope that during the coming year every local board not already organized and doing efficient work may be visited and the efficiency in administering health protective measures in each of these districts increased.

LOCAL SANITARY INSPECTION.

Chapter 251 of the laws of 1903 require that all persons performing other than clerical work for local boards of health, except those who were so engaged prior to the passage of this act, shall pass an examination and secure a license from the State Board of Health to act in the capacity of health officer or sanitary inspector. It was found that out of the 120 districts visited 68 were employing sanitary inspectors or health officers. Of this number 25 were licensed or serving legally under the act above referred to, while 43 local boards of health were employing persons not legally qualified to fill their respective positions. In 39 districts there was no inspector in the employ of the local boards, and in 7 no information was obtained on this subject. In the remaining 6 districts it was found that the sanitary inspection work was performed by the clerk or other official of the local board of health, remuneration being made upon the fee system. It is therefore evident that if improvement in the fitness of persons entrusted with the executive work of local boards of health, which should be secured by the passage of this act, is to be realized, some determined effort must be made to secure an enforcement of the law.

ORDINANCES OR SANITARY CODE.

In 58 of the sanitary districts it was found that ordinances had been adopted, as provided for by the statutes. In 50 districts no ordinances had been adopted, and in 12 others no definite information was obtained on this point. In many districts local boards were ignorant of the fact that ordinances are necessary to the proper enforcement of sanitary measures. In 6 districts, claiming to have adopted ordinances, no copies of the same could be found, in others no records of the legal adoption of their ordinances could be produced, and seldom were printed copies available for distribution.

RECORD BOOK FOR NOTIFIABLE DISEASES.

Chapter 260 of the laws of 1895 requires that all cases of notifiable diseases shall be reported to the local board of health, and further provides that records of these reports shall be kept in a book used exclusively for that purpose. Our investigations have shown that record books were kept in 53 out of the 120 districts inspected. In 11 districts reports were being recorded either in private memorandum books belonging to the officials who received them, or they were incorporated in the minutes of the board meetings or kept in some other equally unsatisfactory method.

In order to establish a uniform method of recording cases of notifiable diseases by local boards of health suitable blank forms have been prepared which are supplied upon request. Subsequent visits to the local boards applying for copies of these forms have shown that, in numerous instances, a satisfactory method of recording cases of notifiable diseases has been brought about in these districts.

While no provision is made by law, requiring local boards of health to furnish blank forms to physicians and others on which to report cases of notifiable diseases occurring within their local sanitary districts, it is customary for local boards of health to supply such forms.

ORGANIZATION.

In 78 sanitary districts included in the 120 investigated the local board had been legally organized, and in 33 some doubt exists as to the legal organization of the board. As a result of these investigations 26 organizations have been affected in sanitary districts which heretofore were without a legally constituted board of health. In 16 districts visited no minutes or other records of the proceedings of the board had been kept, and in 14 districts visited it was learned that no meetings of the local board of health had been held in over a year.

It must be borne in mind that the defects in local health administration above set forth do not apply to the larger and more progressive municipalities in the State, many of which maintain a high standard of public health administration, directed by well

equipped and able health officials. On the other hand, it refers to townships and smaller municipalities in which it is highly desirable to secure an improvement in the sanitary service. Many difficulties stand in the way of bringing this about, chiefly neglect on the part of public officials to appropriate sufficient funds to secure for their district trained sanitary inspectors, and inability to procure such individuals when funds are available. It may be that before a satisfactory standard of efficiency in health administration in rural districts can be brought about some change in the present laws will be necessary.

CONTAGIOUS DISEASES.

While local boards of health are given full power under the law. to institute measures for the control and restriction of the spread of infectious diseases, occurring in the districts over which they preside, many applications are received by the State Board of Health and referred to the division from local authorities for assistance in this work, particularly from localities in which no one is in the employ of the local board who is versed in epidemiological work, and in localities in which outbreaks of unusual proportions This class of work is perhaps the most useful performed by this division and most fruitful in direct results in the prevention of sickness and in saving human lives. The State Board of Health is also invested by the statutes with certain mandatory power to require action by local boards of health in case an outbreak of communicable disease exists in a municipality and the local authorities fail to institute reasonable measures to prevent the spread of infection to adjoining sanitary districts.

Assistance has been given to local boards, and investigations made through the year, in 11 outbreaks of scarlet fever, 8 outbreaks of typhoid fever, 5 outbreaks of diphtheria, 5 outbreaks of small-pox, and in one outbreak of measles. Higher appreciation on the part of the general public of the necessity of isolation, disinfection and the proper supervision over persons affected with a dangerous communicable disease, leads many local authorities to prompt action in seeking advice and assistance in instituting these measures, and there can be no doubt that the work of the investigators sent out by this department in response to requests from

local authorities has resulted in preventing many epidemics of these diseases, which threatened from incipient outbreaks, and has hastened the termination of epidemics already prevalent at the time investigations were begun.

The report of an investigation conducted in an epidemic of small-pox, which occurred in Penns Grove, Salem county, and an outbreak of typhoid fever occurring in Lambertville, Hunterdon county, together with the report of the investigation of an outbreak of diphtheria investigated in Salem county during the past year, are given because of interesting facts brought out in these inquiries.

TABLE SHOWING SANITABY DISTRICTS IN WHICH OUTBREAKS OF CASES OF COM-MUNICABLE DISEASES WERE INVESTIGATED DURING THE YEAR ENDING OCTOBER 31, 1911.

SANITARY DISTRICT.			ME (! :			
	COUNTY.	Scarlet fever.	Typhold fever.	Diphtheria.	Small-pox.	Measles.		te of break.
Buena Vista Township	Atlantic	6	l				Jan.	6. '11
Buena Vista Township							1	•
Franklin Township	Bergen		[]		1	٠		10, '10
Hasbrouck Heights Borough	Bergen					56		
Beverly Township	Burlington	• • •		1		• • •	a	
Southampton Township	Burlington	• • •	ß	• • • •	• • •		Sept.	15, '10
Commercial Township	Cumperland	• • •			انه	• • •	Aug.	22, '11
Maurice River Township South Orange Village			3	• • • •	2	• • • •	Nov.	4, '10
Clayten Borough	Gloucester		21	• • •	}	• • •	MOV.	4, 10
Deptford Township							ł	
Clinton Borough							į .	
Lambertville			41				l	
Lebanon Township	Hunterdon	1	1	8	1	1	Jan.	1, '11
Hopewell Borough	Mercer	2		l				
Hopewell Borough	Mercer	!	1	1			April	9, '11
Lawrence Township	Mercer	7					Jan.	23, '11
Lawrence_Township	Mercer	7					[Feb.	21, '11
Dunellen Borough	Middlesex						July	17, '11
New Brunswick City	Middlesex				$ \cdots $	• • •	April	18, '11
Belmar Borough	Monmouth	13				• • •	Jan.	9, '11
Farmingdale Borough	Monmouth	1	· · ·	{ · · ·			Nov.	14, '10
Wall Township			\ 2	١٠٠٠			MOA.	14, 10
Lower Penns Neck Township			1	1			Jan.	18, '11
Penns Grove Borough	Salem				28		Dec.	80, 10
Salem City			1:::	22			Aug.	22, 10
Upper Penns Neck Township	Salem	!:::	1:::		4	l:::	Jan.	6 , 11
Bound Brook Borough				١	ا آ	١. : :	Mar.	20, '11
Sussex Borough				١	١	١	Feb.	ĭ, 'īī
		1	1	١	1	٠	1	-,

REPORT ON AN OUTBREAK OF SMALL-POX IN PENNS GROVE, SALEM COUNTY.

In accordance with instructions Penns Grove, Salem county, was visited by a representative of the Division of Medical and Sanitary Inspection on January 9th, 1911, in response to a request from the local authorities for assistance in an outbreak of smallpox. Up to the time of this visit ten cases of the disease had been reported to the local board of health. The first of these cases were reported on January 7th, after an illness covering eight days before the true nature of the disease was determined. Many persons had, therefore, been exposed to the infection. A meeting of the local board of health was held upon the arrival of the State representative, and the work which had been done by the board was reviewed. A hospital building was then under construction and many vaccinations had been performed by local physicians. The public schools and churches had been closed upon recommendations of the local authorities and orders had been issued by the local board requiring a number of business houses, in which infection was thought to have taken place, to be closed. At the meeting above referred to plans were perfected for instituting additional preventative measures and an effort was made to systematize the work in a manner to secure prompt and efficient results. In order that the action contemplated might be carried out in a legal manner a copy of the local health ordinances was asked for, but it appeared that none had been adopted providing for quarantine and disinfection, nor for the removal of persons suffering from infectious diseases to a hospital. The board was therefore without power to legally enforce all its orders. withstanding this fact the gravity of the situation was apparent and it was decided to take the necessary action to effectually handle the situation. Relying on the powers granted to local boards of health in the general act of 1897, together with the provisions of an old ordinance of more than doubtful validity, the following rules and regulations were adopted:

WHEREAS, The Board of Health of the Borough of Penns Grove has information that eleven cases of small-pox now exist in private dwellings within the borough limits, all located in the built-up section of the borough, and

WHEREAS, In the judgment of this board safe and proper isolation cannot be maintained for the persons so affected, in the dwellings in which they now reside, be it

Resolved, That under authority conferred under the provisions of sections 12 and 24 of chapter 68 of the laws of 1887, the following rules and regulations are hereby adopted:

Rule 1. All persons who have been reported to this board as suffering from small-pox, or who may hereafter be reported to be affected by said disease, shall be removed to the hospital building now being constructed for the detention and care of small-pox cases.

Rule 2. All dwellings or other buildings, together with their contents, from which persons affected by small-pox may be removed, or in which persons thus affected are known to have inhabited, shall be disinfected under the direction of the Board of Health or its authorized agent.

Rule 3. All persons known to have been directly exposed to the infection of small-pox, and who have not directly thereafter been vaccinated, shall be quarantined for a period of fourteen days dating from the day of the last known exposure.

Rule 4. All persons known to have had an exposure to small-pox, and who have directly thereafter been vaccinated, shall be required to report daily to the medical officer of the Board of Health for examination, for a period of not less than 14 days. following the date of their last known exposure to the infection.

General vaccination was advised and strongly urged, and many persons not voluntarily seeking the protection thus afforded, and known by the authorities to have had a direct exposure to the disease, were sought out by the Board of Health physicians and offered vaccination. In cases where this service was refused the suspects were placed under quarantine as provided for in No. 3 of the above rules.

Five of the first group of cases occurring in the borough of Penns Grove were among the workers at the Du Pont Powder Works, at which about five hundred persons were employed. Directly upon learning of the nature of the disease affecting their workmen an order was issued by the company requiring that all employes should be vaccinated. This work was performed at the expense of the company, and all who refused to accept vaccination were excluded from the plant. The promptness of this action undoubtedly prevented what otherwise would have resulted in a widespread epidemic among the many susceptible employes who had been exposed to cases known to have entered the shop during the early eruptive stage of the disease.

The hospital buildings were completed and the removal of nine cases affected on January 12th, four days following a diagnosis in the first cases, or eleven days subsequent to the onset of the

disease in these persons. Owing to many exposures which were known to have taken place during the latter named period of time, and the delay in vaccinating the persons thus exposed, the occurrence of other cases which followed were fully anticipated.

While up to the time of the first visit of the representative of this division no careful study had been made to determine the source of infection causing the outbreak. A generally accepted theory prevailed that the infection was due to contact with a man who came to Penns Grove from Wilmington, Del., on December 23d, following his release from a small-pox detention hospital in which he had suffered an attack of the disease, and where he remained from December 8th to 23d. He had small-pox eruption on his body eight days before entering the hospital, which fixes the date of his attack about November 28th. While an investigation of the case showed this theory to have been erroneous, this case had, further back in its history, played a vital part in the line of transmitting the infection. The onset in the first group of cases in Penns Grove occurred on December 30th and 31st, followed by a marked eruption in some cases on January 2d. It was established in some of the cases investigated that the sufferers had not seen the convalescent from Wilmington nor had there been any known indirect exposure to him following his release from the hospital and return to Penns Grove. In any event the necessary incubation period had not elapsed for infection to have occurred from such exposure. What proved to have been the source of infection causing the outbreak in Penns Grove was discovered through an epidemiological study of the first ten cases in the borough, together with two others which occurred a few days subsequently in persons residing near Hawkes Bridge, in Upper Penns Neck township. Some of the persons first infected gave a history of having noticed a suspicious eruption on the face and hands of a person named Grover Reighn, with whom they had worked, or otherwise associated with, in Penns Grove, between December 18th and January 3d. A careful investigation of these reports showed the following history, which was subsequently verified in all important points. Reighn, 27 years old, is said to have been vaccinated at the age of four or five years. He was taken ill with headache, backache and fever, followed by an eruption which appeared about December 19th. This man left the house in which he then resided with his wife and family, and went to the home of his mother, who is said to have suffered an attack of small-pox in early life, where he remained in the house for a few days on account of illness. It is claimed that medicine was procured from a local physician, at the onset of his illness, without the physician having seen the patient. It is also stated that he subsequently called upon a local physician for treatment. physician last referred to had no record of such a visit, nor did he remember the occurrence of the alleged call. A prescription, which had been filled for the patient in question, signed by the physician referred to, and dated December 19th, was found on the files of a local druggist. The drug prescribed for is one commonly used as a lotion to allay itching. Another practicing physician states that Reighn requested treatment from him for a skin eruption while on the public street. Treatment was refused on this occasion, and the patient advised to call later at the physician's office. This the patient did not do. Many persons who saw Reighn on the streets and in public places during the period of time from December 18th to January 3d, with some skin eruption described as numerous "boils" on the face, wrists and hands, including the palms, which apparently contained yellow matter and showed dark colored heads. Reighn was employed, with a number of other men, at work in filling an ice house in Penns Grove on December 21st, 22d and 23d. Two of his working companions on the above named dates, colored persons, who had residence in Upper Penns Neck township, near Hawkes Bridge, were taken ill on January 5th and broke out with typical small-pox eruption on January 8th. Neither had been vaccinated. Reighn left Penns Grove on January 23d, by train, for Philadelphia, from thence he continued his journey to Baltimore, and took a steamer on the Merchants and Miners Steamship Line, on January 4th, bound for Savannah. He then proceeded by train to Darien, Ga., due to arrive on January 9th, where he entered the employ of Mr. A. Dolbow, as a shad fisherman. The statement that Reighn spent a night in Wilmington, Del., some time preceding his illness, was later verified, and it was also learned that he slept that night with the patient above referred to as having been treated for smallpox in the municipal hospital at Wilmington. The exact date of this occurrence could not be fixed, but it was not more than a day or two preceding the admittance of the case to the Wilmington hospital on December 8th. While the person released from the

hospital in Wilmington did not himself bring the infection to Penns Grove, he doubtless was the source of contagion which resulted in Reighn's illness and through him caused the outbreak. It is shown by the epidemiological study made of this outbreak that Reighn was responsible for the direct infection of 17 of the 27 cases of small-pox which followed in persons who were exposed to his unrecognized case of illness. In tracing back the line of infection for the cases which had been treated in the hospital in Wilmington, Del., some interesting facts were brought out which show that, in all probability, the outbreak in Wilmington was due to infection brought there by members of the crew of the oyster boat Alice Barnes, coming from the city of Millville, N. J., where a widespread epidemic of small-pox had prevailed during the summer and fall of 1910, that epidemic being characterized by the same mild type of infection as that which appeared in the cases occurring in Wilmington, and later in Penns Grove. the Millville epidemic some practitioners insisted that the infection was due to chicken-pox and treated the cases as such, notwithstanding the fact that the infected persons gave a clear history of having previously suffered from chicken-pox, and that they had not been vaccinated. No diagnostician was called to assist in determining the true nature of the disease causing so many cases of illness in Millville, and, in some instances, it appeared that a diagnosis was made solely on the severity of the attack, regardless of the previous history of the patient as to his vaccinal status, previous attack of chicken-pox, recent exposures, &c. Cases in the Millville epidemic were occasionally reported as chicken-pox and later, on developing a more severe type of illness, the reports were changed to small-pox. This led to confusion, followed by hesitating and less stringent preventative measures on the part of the local board of health, and in many instances cases were not reported at all. It was from cases which occurred in a family residing at 320 Morris street, Millville, during the epidemic above referred to in said city, that infection was contracted which passed from person to person and eventually caused the outbreaks in Wilmington, Del., from which locality it spread to Penns Grove, N. J., and to two townships adjacent thereto. The cases occurring in Penns Grove and surroundings were mild in type and, occurring singly, a diagnosis would probably have been extremely difficult in some cases. In the case of two affected children no

physician was called, and the nature of their illness would probably not have been discovered had not their mother contracted infection from them and suffered a more marked type of the disease which required medical treatment. Some of the cases were quite typical, however, and one severe case of confluent small-pox was numbered among them. There were no fatalities. Dr. W. M. Welch, of the Municipal Hospital, of Philadelphia, who was called by the Penns Grove local board of health to establish a diagnosis in some of the earlier cases of milder type, said in the report of his examination: "I have no hesitancy in pronouncing the prevailing disease small-pox. It is certainly of an extremely mild type, so mild indeed as to be quite atypical in many cases." a result of this mild type of the infection many residents of the borough refused to accept the diagnosis of small-pox, thereby making preventative measures more difficult to enforce. Of the twenty-eight cases occurring in the borough of Penns Grove, twenty were removed to the isolation hospital. Five cases were quarantined in private houses and three cases, including the original one, were not discovered until after recovery and no restrictive measures were therefore placed about them.

The longest period of time for quarantine in any one case, dating from the onset of the disease, was 29 days, and the shortest period 10 days. The average length of quarantine was 25.1 days.

The hospital record shows the average detention for the twenty cases treated there to have been 14.75 days. The longest detention in the hospital for any one case was 23 days, and the shortest, 9 days.

The vaccinal history of those who suffered from the disease shows that twenty-five had never been vaccinated; in one an attempt at vaccination in early life had proved unsuccessful and two claimed to have had successful vaccinations, one in about 1898 and the other one about 1881. In the five cases which occurred in the adjoining townships, only one of the sufferers had been previously vaccinated. This was a colored woman, about 70 years of age, said to have been vaccinated when a child. Many vaccinations were performed in Penns Grove and vicinity. Out of a population of about 2,100 in the borough five local physicians claim to have jointly vaccinated about 1,755 persons before the epidemic had terminated. The Board of Education, however, re-

fused to require that school children, as a prerequisite to attendance in the public schools, be vaccinated.

Many persons deferred vaccination on the plea that they considered the results in a successful vaccination as bad as the illness suffered by those attacked by the disease, while others, holding pronounced objections to vaccination, put forth the usual arguments advanced by persons unfamiliar with the protective value of vaccination against small-pox and the much overdrawn and erroneous statements in circulation concerning the baneful results alleged to follow the operation.

The temporary hospital buildings constructed for the successful handling of this outbreak were well built and equipped to serve the purpose for which they were so hastily designed and completed. The main building is 16 x 60 feet on the ground surface and one story high. A movable partition divides the room into two wards, for the separation of the sexes, and contains a physician's room and a bath room. The buildings were heated by stoves, lighted by gas and supplied with running water piped from the street main. The administration building, 16 x 32 feet, contains the kitchen, store room and sleeping quarters for nurses and other employes.

The cost to the borough in dealing with the outbreak, according to figures furnished by the local authorities, was \$4,150.97. Of this amount \$1,262.31 represents the cost of construction and equipment of the hospital buildings, which still stand as an asset to the borough. The sum of \$2,888.66 is chargeable to treatment of 27 actual sufferers from the disease (twenty of this number being cared for in the hospital), and to measures adopted against the spread of infection. It is therefore shown that the cost to the borough of each case treated was \$106.61.

The damage suffered by the commercial interests of the borough as a result of this epidemic is difficult to estimate. It was, however, considerable, for the town was shunned for a period of five or six weeks by the inhabitants of smaller nearby towns and the surrounding farming district, who customarily make Penns Grove a shopping center. The general traveling public also avoided the town and wholesale business houses instructed their salesmen to discontinue their regular visits to Penns Grove, because of numerous complaints from patrons in other localities who objected to receiving calls from agents known to have previously been in the infected zone.

TYPHOID FEVER IN LAMBERTVILLE.

In accordance with instructions the city of Lambertville was visited on August 14th to assist the local authorities in the investigation of a number of cases of illness which closely resembled typhoid fever in clinical symptoms, but in which no definite diagnosis had been established. The rather alarming number of cases then existing in the city showed the infection to be widespread, though its origin and method of transmission was not at that time suspected.

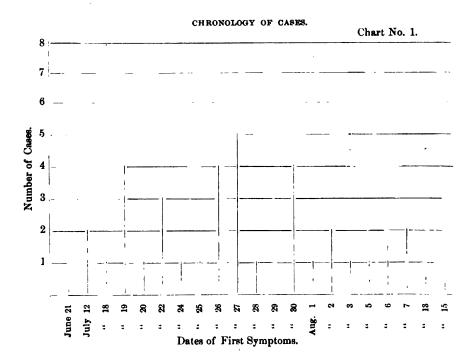
Lambertville is a city of about 4,600 inhabitants, built upon a narrow strip of land which lies at the foot of the hills that rise on the east, and washed by the waters of the Delaware River which marks its western boundary line. The town of New Hope lies directly across the river from Lambertville and contains about 1,500 inhabitants. The two settlements are connected by a trolley and wagon bridge which spans the river at this point.

At the time this inquiry was started there were but two or three of the many cases under treatment in which a positive clinical diagnosis had been determined upon. Physicians in attendance upon the cases reported that during the onset they presented the usual symptoms accompanying the early stages of typhoid fever, but as the cases progressed beyond the first or second week the symptoms became such as to create a doubt about the diagnosis. The local health officials were, therefore, uncertain as to the true nature of the infection with which they had to deal as well as its source.

A summary of the epidemiological study of the outbreak, and the results of the laboratory work done in connection therewith, are here given. The bacteriological work was done in the State Laboratory of Hygiene. The data from which the other facts have been compiled was gathered by personal investigations made in each case, supplemented by facts furnished to your inspectors by physicians in attendance upon the cases. Considerable care has been exercised in gathering this information, and all statements made by our informers apparently having an important bearing on the results of the findings, and in which there seemed a reasonable doubt of the accuracy, were subsequently verified.

OCCURRENCE OF CASES.

During the latter part of June there was a case of typhoid fever reported to the local board of health from the northern part of the city. The onset of the case dated back to June 21st. It ran a mild course and no laboratory diagnosis was made. During the second week in July two other cases occurred in other sections of the town, and they were followed by eight others before the close of the third week in the same month. New cases continued to occur at the rate of from one to five each day, with but little intermission, until August 15th, when the outbreak suddenly terminated with the report of three cases, thus bringing the total number of cases up to 41. Chart No. 1 shows the number of cases and the dates on which the first symptoms were noted in each.



The absence of a sharp rise in the number of cases occurring at any one time, and the almost daily occurrence of cases between July 18th and August 15th shows a slight but continuous infection lasting over a period of about eight weeks.

In considering the various probable sources of infection to which the outbreak might be due, inquiry was made along the following lines:

WATER.

The public water supply for the city of Lambertville consists of a filtered surface supply, stored in two reservoirs, from which water is delivered under pressure throughout the town.

Among the forty-one cases of sickness investigated, thirty-three used water exclusively from the public supply; six used water from the public supply and cistern water; one used the public supply, cistern and spring water; one used the public supply and spring water; four used cistern water only; one used well water and melted ice, and three used only melted ice for drinking purposes. Thirty-three cases (80.5 per cent. of the entire number) drank water drawn wholly or in part from the public supply, while eight cases, according to the most reliable information procurable, drank none of this water. These figures alone would be sufficient to allay suspicion against the water supply, providing no consideration was given to the great liability of error in procuring absolutely correct information on this point in a community where a public supply is in general use. This factor of error is more liable to occur where inquiry concerning the cases is conducted long after the probable date of infection, as was the case in this This fact was constantly borne in mind while procuring this data. Before and at the time this investigation was started suspicion had been cast upon the water supply, but no tangible facts were presented by the holders of this theory of water-borne infection to substantiate their contention.

Samples of water from the public supply and also from a spring, from which water was piped to several houses in which cases occurred, were examined chemically and bacteriologically with entirely satisfactory results. More work might have been done on the water supply had it been of doubtful quality, and had not other lines of inquiry appeared more likely to offer an explanation of the problem sought.

FRESH VEGETABLES AND FRUITS.

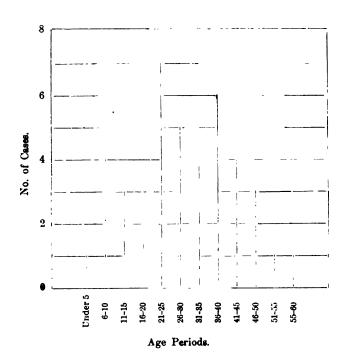
Vegetables and fruits that are eaten without cooking were carefully investigated but no considerable number of cases had procured a supply from the same source. Other foods through which the infection causing intestinal disturbances are known to have been transmitted, such as shell-fish, the product of bake shops, ice cream, soft drinks, &c., were considered with negative results. The outbreak lacked that explosive character invariably following in cases where considerable numbers of persons partake of infected food served at public gatherings.

CONTACT.

Single cases occurred in twenty-six houses, two cases each in six houses, and three cases in one other. In the dwelling in which there were triple cases, the second followed the first in fifteen days and the third developed thirteen days later. houses in which two cases occurred in each, there were two in which both patients were taken ill at the same time; in three others there were lapses of seven, eight and ten days respectively between the occurrence of cases, and in one other twenty-two days intervened between the cases. Considering the dates of onset only, and allowing seven days to be a sufficient length of time for the incubation period in the infection causing this outbreak there could not have been more than six cases due to contact from preceding cases occurring in the same houses, and there was no evidence to show that any case resulted from contact with infected persons other than on the premises upon which the secondary case There was nothing in common in the social conditions' of the sufferers, nor were they grouped in any one section of the city. The sexes were about equally represented, and the ages of the infected persons showed no unusual feature.

OCCUBBENCE OF CASES BY SEX AND AGE PERIODS.

	Sex.		Number	
Age.	Male.	Female.	of Cases.	
Under 5	1		1	
6-10	4		4	
11—15		3	3	
16—20		2	2	
21—25	2	5	7	
26-30	2	3	3	
31—35	4		4	
36—40	1	5	6	
41—45	3	1	4	
46—50	2	1	3	
51—55	1		1	
56—60		1	1	
	20	21	41	



FLY INFECTION.

There are no sewers in the city of Lambertville. Cesspools and privy vaults abound throughout the town. On many premises the house drain discharges into a large leaching vault over which stands a privy building. In other cases the vault and cesspools are separate structures, but in no instance was a privy found to be so constructed that flies and other insects were excluded from its filthy contents. On 29 of the 34 premises upon which cases occurred human excrement was stored in a manner that afforded ideal breeding and feeding places for flies, and in many of the vaults and cesspools large numbers of mosquitoes were found to be breeding in their semi-liquid contents. The discharges from the patients had not been disinfected in many of the cases, while in some others this all important preventative measure had been performed in an inefficient manner. With but few exceptions the infected excretions were placed in the cesspools or privy vault. therefore appears that conditions existed which might be regarded particularly favorable to fly infection, yet from a study of the data gathered in this investigation it does not appear that infections in this outbreak was due to such a cause. The early date in the summer at which the epidemic began, together with its abrupt termination at a time when flies were becoming most numerous and active, do not argue fly infection, particularly so when it is considered that no measures had been taken to disinfect the various cesspools and vaults in time to have brought this about.

MILK SUPPLY.

There are nine persons or firms who daily distribute milk in the city of Lambertville. In addition to these there are a number of persons who keep one or more cows and sell to neighboring families what surplus milk they produce above that required in their own household. The average daily amount of milk furnished to consumers by nine dealers referred to is shown in the following table, each dealer being referred to by a letter of the alphabet.

TABLE SHOWING DEALERS AND AMOUNT OF MILK DISTRIBUTED DAILY BY EACH TO CONSUMERS IN LAMBERTVILLE.

	TABLE II	!.	
Dcalers.		Daily amoun	t distributed.
a		180	qts.
b		150	qts.
с		150	qts.
d		125	qts.
е			qts.
f		80	qts.
g		60	qts.
h		120	qts.
i		200	qts.
		1,185	qts.
j. Va	ious other sources, estima	ted 300	qts.
	Total		qts.

TABLE SHOWING SOURCE OF MILK SUPPLY FOR DWELLINGS IN WHICH CASES OCCURRED.

	OCCURRED.				
	Dealer. A.	No. of Houses. 19	No. of Cases. 26		٠
From dealer A exclusively		19	26	19	26
	A.B.	2	2		
	A.E.J.	1	1		
•	A.I.	1	1		
	A.C.D.	1	1		
	A.J.	1	1		
	A.C.G.	1	1		
	A.C.J.	ī	1		
	A.D.J.	1 .	1		
In part from dealer A	11.2.0.	•	•	9	9
	B.	1	1		
	C.	1	1		
	D.	1	1		
	H.	1	1		
	?	2	2		
From various other dealers	-	_		6	6
Total				34	41

Cases occurred among the occupants of 34 houses. Twentysix cases developed in 19 houses drawing their entire supply of milk from dealer A; nine families in which single cases occurred had procured a portion of their milk supply from dealer A, or the infected persons are known to have ingested some of this milk while away from their homes, and within the incubation period of typhoid fever preceding the dates of attack. There were four cases occurring in as many houses, in which the patients were quite sure that they had not consumed milk known to have been supplied by dealer A, and one case in each of two houses in which no reliable history was to be had concerning the source of milk supply.

All six houses in which secondary cases occurred were among those supplied with milk exclusively by dealer A.

From the figures above given on the milk supply it appears that dealer A furnished about 12 per cent. of the 1,400 or more quarts of milk daily supplied to about 4,000 consumers, yet 85.3 per cent. of the 41 cases occurred among persons who are known to have used milk supplied by him. In addition to this, eighteen of the infected persons were habitual milk drinkers before their illness; sixteen frequently drank milk; five others claim to have used raw milk on cereals only; one never used milk, and one takes milk only in coffee.

The above facts leave little doubt but that the infection which caused the illness from which persons suffered in this epidemic was in some way associated with the milk supply of dealer A, and that it was due either to infection in the milk itself or was transmitted through the utensils used in its distribution, or by the person who distributed the milk. A fact which it has been much easier to point out than it is to show just how this condition was brought about.

The dealer who distributed the suspected supply conducts a dairy about three miles distant from Lambertville. For a considerable length of time preceding the outbreak all milk distributed by this dealer was produced upon his own dairy, except that on Saturdays he purchased from a nearby dairyman. There was no history of recent illness among the eleven members of the dealer's family. Blood specimens were taken from each member of the family and from his one employe. These specimens gave negative results when subjected to agglutination tests for typhoid and para-typhoid. No dipped milk was sold. The bottles were washed with a power driven bottle washer in a milk house above the average in cleanliness, and filled for distribution by the dairyman, or some one of the five members of his family who assisted

in the work. There was no provision for sterilizing bottles and utensils on the dairy. The water used in cleansing bottles and utensils, as well as for all purposes in the dwelling, was drawn from a shallow dug well located within twenty feet of a leaching privy vault. The wooden cover over this well was leaky and the surrounding ground unclean. An analysis of the water showed gross pollution. No history of illness is known to have occurred among any of the considerable number of persons who are known to have used water from this well. The twenty-two cows in the herd were examined physically by E. R. Voorhees, veterinarian. As a result of this examination one cow which gave evidence of tuberculosis of the lungs and pharyngeal glands, and one with a diseased udder, resulting from a previous attack of maminitis, but then dry, were excluded from the herd. The dairy from which dealer A procured a portion of his Saturday's milk supply was also carefully examined, including an examination of the herd, but no conditions were found to which the outbreak could be attributed, and no sickness was known to have occurred among the persons who regularly consumed the milk produced thereon.

Netwithstanding the negative history resulting from inquiries conducted on the dairies the relative large number of cases that appeared among the persons consuming milk supplied by dealer A called for definite action. Accordingly, on the third day following the beginning of this inquiry, it was required that all cans, bottles, utensils and equipment used by this dealer should be daily sterilized. The removal of empty milk bottles from infected houses, which had continued up to this period, was also stopped. The sale and collection of repeatedly used cardboard milk tickets ceased and the use of water from the polluted well on the dairy was discontinued on August 18th. On August 21st the pasteurization of the milk at the dairy was begun. In considering the possibility of infection having been transmitted from house to house in bottles used by the dairyman whose milk supply fell under suspicion, we have the following significant facts:

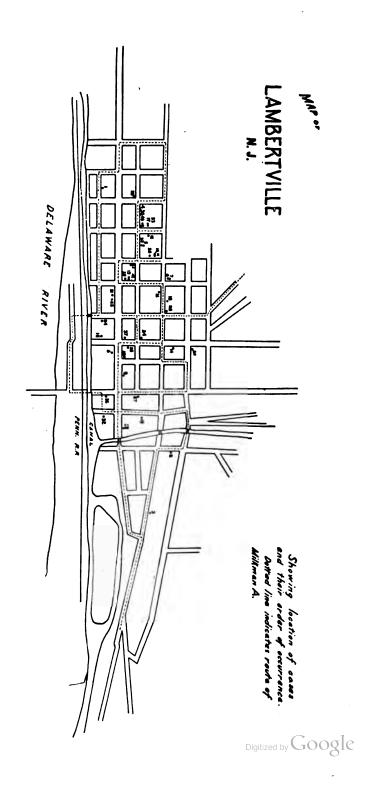
Preceding and at the time of the occurrence of the original case, on June 21st, the family procured milk from dealer D, who served them milk dipped from the can. On or about June 30th dealer A was called in by this family to supply bottled milk for the exclusive use of the patient. Two quart bottles each day were required for this purpose, and the empty bottles were removed by

the dealer at the time the daily delivery of milk was made. These bottles received no special treatment and were washed at the dairy with others in a manner already described. We have no knowledge how the bottles were handled in the infected house. A nurse was employed to care for the typhoid patient. The same nurse also looked after another sick person in the house, did the cooking and performed other household duties.

About two weeks following the first removal of bottles from this infected house by dealer A, one person in each of two other families supplied with milk by him were taken ill. New cases continued to appear among this dealer's customers, on dates which are shown in the following table, until the termination of the outbreak on August 15th. The dealer also continued to remove empty bottles from the house in which other cases occurred, until after this investigation was begun.

TABLE SHOWING NUMBER OF CASES, LOCATION, DATES OF ONSET AND MILK DEALER.

Case No.	Street and No.	Dates of Attack. M	ilk Dealers.
1	102 Clinton	June 21	D
2	75 Swann	July 12	AEAJ
3	129 S. Main	July 12	A
4, 30, 40	46 Delaware	July 18, Aug. 2, Aug. 15	A
5, 22	118 George	July 19, July 27	A
6	39 N. Union	July 19	\mathbf{A}
7, 8	104 N. Main	July 19, July 19	A
. 9	N. Union	July 20	A
10, 11	Jefferson	July 22, July 22	A
12	47 Delaware	July 22	A
13, 41	30 Delaware	July 22, Aug. 15	A
14	85 Coryell	July 25	\mathbf{c}
15	16 Coryell	July 26	A
16	19 N. Union	July 26	Λ
17, 33	50 Delaware	July 26, Aug. 5	A
18	86 N. Main	July 26	A
19	55 Ferry	July 27	AI
20	46 N. Franklin	July 27	
21	17 Jefferson	July 27	ACD
23	28 Delaware	July 27	АJ
24	44 Coryell	July 28	A
25	85 N. Union	July 29	A
26	32 Jefferson	July 30	A B
27	45 Bridge	July 30	A
28	68 York	July 30	ACG
29	N. Union	Aug. 1 .	\mathbf{B}
31	86 N. Union	Aug. 2	A
32	11 Ferry	Aug. 3	
34	9 York	Aug. 6	A
35	35 Coryell	Aug. 6	$\mathbf{A} \mathbf{C} \mathbf{J}$
36	35 Bridge	Aug. 7	A B
37	32 Coryell	Aug. 7	A
38	34 Perry	Aug. 13	ADJ
39	26 S. Union	Aug. 15	H



DIAGNOSIS-LABORATORY WORK.

The results of the laboratory findings in the examinations of blood specimens and feces proved of little assistance in clearing up the diagnosis. One or more specimens of blood from each of 29 cases were examined by the agglutination test for typhoid fever. A positive Widal reaction was secured in five of these cases, and four others were reported as atypical. Fourteen of these cases were tested for para-typhoid with unvarying negative results. Examination of stools and urine was made in three cases which were likewise negative.

Dr. Closson, president of the local board of health, attended twelve or more cases during the outbreak, and from a study of these cases, and others seen by him in consultation with other physicians, has described the clinical symptoms as follows:

The prodrome was short. For three or four days before taking to bed there was a feeling of lassitude and no desire to work. Once in bed the more prominent symptoms soon developed, pains in the muscles of the back and back of neck, severe headache, especially on top of the head, profuse sweats, sometimes two in twenty-four hours. Loss of appetite in some but in others there was a desire for food all through the course of the disease. The tongue was dry and covered with yellowish gray coat and an offensive odor to the breath. The pulse was mostly rapid, from 95 to 120, quite full volume but low tension. Constipation in all but three or four cases. The kidneys acted normally, and urine examination revealed nothing. The temperature varied from 99° in the morning to 104° in the evening. In the second week of the disease these symptoms were very little aggravated, but the patient was more exhausted.

The beginning of the third week the fever dropped, all other symptoms disappeared, and by the end of this week convalescence was well established with no complications. Three patients suffered relapse, but the symptoms were mild and run a short course. There were no deaths.

112 REPORT OF STATE BOARD OF HEALTH.

RESULTS OF LABORATORY EXAMINATIONS.

Case No.	Typhoid.	Para-Typhoid.	Stools.	Malaria.
1		-		
2 8	- x			
8				
4				
5•		enan.		
6 7	x			-
9 -	- a -	<u>-</u>	ļ	
9 10				
11	8.		_	
12	x x			
13				
14 15				
16		,		
17	<u>-</u> a			
18				
19				<u> </u>
20	8 a -			
21				
22				
23				
24 25	a - a			
26	x			
27	a x - `			
28				
29	-		· · · ·	
30				
31				
32				
<mark>38</mark>				
35		<u>-</u>		
36				
37	-			
38	•	-		
39				·
40			1	
41		_	ł	

Thanks are due to Drs. Closson, Romine and Williams for their hearty co-operation in the investigation in cheerfully furnishing information and procuring samples for bacteriological examinations.

CONCLUSIONS.

Notwithstanding the fact that a laboratory diagnosis was made in only five cases there can scarcely be a doubt but that the fortyone cases of sickness investigated in this epidemic were caused by the same infection.

Second. From a history given of the clinical symptoms of the cases the outbreak was probably due to typhoid or para-typhoid infection.

Third. While no history of infection was found on the premises of milk dealer A, nor among the persons who assisted in the collection and distribution of the milk supplied to consumers by him, the evidence gathered in the investigation shows that the infection was without doubt transmitted through the milk supplied by dealer A.

Fourth. No information was obtained showing that milk bottles were unduly exposed to infection in the dwellings in which the first and subsequent cases occurred, but the facts which were gathered suggest that infection may have been spread through bottles removed from infected houses.

Fifth. The abrupt termination of the outbreak on the day following the beginning of the investigation, shows that the infection had become inactive before the preventative measures instituted as a result of the investigation had become operative.

INVESTIGATION OF DIPHTHERIA OUTBREAK IN SALEM, SALEM COUNTY.

In accordance with instructions and in compliance with a request of the local board of health of the city of Salem, an inspection has been made of the Λ . M. Action Public School Building in said city, and an outbreak of diphtheria, thought by some to have had its origin in said building, was investigated.

The heating and ventilation of the school buildings above referred to was inspected and reported upon under date of October 27th, 1909. There has been no improvement in the defects set forth in the report of said inspection.

114 REPORT OF STATE BOARD OF HEALTH.

Twenty-two clinical cases of diphtheria have been reported to the local board between the dates of August 22d and December 9th, 1910. There have been three deaths. Nine of the above number of cases have occurred in children who attended the A. M. A. School; one attending the Samuel Copner School Building; one, the Griffith Building; two were in the kindergarten building, and nine cases were among persons who were not of school age. Three of the nine cases occurring outside of school children are secondary cases to those occurring in the A. M. A. Building, and one is a secondary case to one of those occurring among the kindergarten pupils. In the A. M. A. Building there have been cases among pupils in rooms 1, 3, 4 and 5.

A somewhat careful study of the facts gathered by the local health inspector and from information procured at the A. M. A. School Building, shows that the first case in the outbreak developed several weeks preceding the date of the opening of the fall term of school, and that the person in whom this case occurred did not subsequently attend the A. M. A. School. It was stated that prior to the present outbreak there had been no known case of diphtheria among pupils attending the A. M. A. School Building since December, 1909, and the board of health records show no cases reported in the city since May, 1910.

Case No. 2, reported November 15th, occurred in a family from which no one attended school. Case No. 3 was reported on November 14th, and the patient died on the following day. The child was not of school age, but another child in the same family was a pupil in the A. M. A. School and was present up to and including the day preceding this death. Other children left the school building on November 14th, 15th, 16th, 18th and 21st on account of illness, which subsequently proved to be diphtheria.

It appears quite probable that the pupil who had attended the A. M. A. School from the dwelling in which the death above referred to occurred may have been a "carrier case" and have spread the infection which subsequently caused the cases in the same school. The inquiry shows that the infection is not entirely confined among persons residing in families from which children attended the A. M. A. School Building, but that it extends to persons in attendance at other school buildings and also to those having no direct nor indirect connection with the schools.

The schools were closed between the periods of November 21st and 28th. They were then opened for sessions on the 28th and 29th, since which time they have remained closed.

Specimens for bacteriological examination have only been taken from scholars whose throats appeared suspicious when examined by the medical school inspector, and isolation restrictions have sometimes been withdrawn by the local board of health upon one negative reply from clinical cases, and no specimens have been required from other members of the family in which these cases have occurred.

It was suggested to the supervising principal, who was present at the time of the inspection of the school building, and also to the president and secretary of the local board of health, that the schools be re-opened and that a systematic effort be made to weed out carrier cases from among the scholars in the schools in which clinical cases have appeared.

A study of the records of reported contagious diseases in the possession of the local board of health shows that diphtheria has been prevalent in this city, for at least two years past, to an extent that infection has doubtless become widespread, and outbreaks of the disease, such as at present prevail, may reasonably be expected to occur at more or less regular intervals unless determined preventative measures are enforced.

The records show that 81 clinical cases of diphtheria were reported during the period from April 8th, 1909, to December 19th, 1910, as follows:

April, 1909	3	cases.
June, 1909	2	"
July, 1909	5	"
August, 1909	6	"
September, 1909	10	" .
October, 1909	18	"
December, 1909	5	44
January, 1910	8	**
March, 1910	2	"
May, 1910	1	case.
August, 1910	1	41
October, 1910	1	**
November, 1910	13	cases.
December , 1910	6	"

81

116 REPORT OF STATE BOARD OF HEALTH.

The following verbal suggestions for controlling the epidemic were made:

First. That the schools be re-opened and that a specimen be taken from each pupil attending a school building in which a clinical case of diphtheria has occurred.

Second. Exclude from school all carrier, as well as clinical cases, and also all scholars who reside in families in which either of this class of cases are known to exist.

Third. Require at least two consecutive negative specimens before withdrawing isolation restrictions from infected dwellings or persons, and also a negative reply from specimens taken from all school children coming from families or dwellings in which clinical or carrier cases have been found.

Suggestions for cleansing the school building were made to the supervising principal.

EPIDEMICS OCCURRING IN STATE INSTITUTIONS.

The following law, passed in 1908, outlines the powers of the State Board of Health in dealing with epidemics of contagious diseases which occur in the various State institutions:

CHAPTER 292, LAWS OF 1908.

AN ACT requiring the Board of Health of the State of New Jersey to initiate and prosecute measures to control epidemics in State institutions.

BE IT ENACTED by the Senate and General Assembly of the State of New Jersey:

- 1. It shall be the duty of the Board of Health of the State of New Jersey, whenever an epidemic shall occur in any institution maintained, in whole or in part, by the State, to immediately initiate and prosecute vigorously all measures to check and control such epidemics, regardless of and without reference to any local board or boards of health, and to that end such State Board of Health is hereby endowed with full power and authority in the premises.
 - 2. All acts and parts of acts inconsistent herewith are hereby repealed.
 - 3. This act shall take effect immediately.

Approved April 15th, 1908.

The intention of this law is to place the responsibility for the investigation and control of epidemics in institutions directly on the State Board of Health, and avoid such conflicts of power and duties in dealing with institutional epidemics as have in the past

arisen between State and local boards of health and the managers of the institutions. Each year in dealing with institutional epidemics new and perplexing problems are presented. Since the enactment of the law a careful study of each epidemic has been made, and with the co-operation of the management of each institution we have succeeded in limiting the cases of infectious diseases. Contagious diseases were reported and investigated in the following institutions: State Home for Girls, Trenton, four cases of typhoid fever; New Jersey State Hospital, Morris Plains, two cases of typhoid fever; New Jersey State Hospital, Trenton, eleven cases of typhoid fever; New Jersey State Normal School, Trenton, two cases of diphtheria; New Jersey State Village for Epileptics, one case of diphtheria and three cases of typhoid fever. Tuberculosis cases are reported, but are not usually investigated.

Mr. David C. Bowen, the State Inspector in the Division of Medical and Sanitary Inspection, has supervised the investigation of contagious diseases in institutions, and the report of one of these inquiries is given because of interesting features which developed during the inquiry and the use of typhoid vaccination as a prophylactic measure.

TYPHOID FEVER OCCURRING AT THE STATE VILLAGE FOR EPILEPTICS.

As shown by a report, dated August 29th, the first case in this outbreak occurred in a person employed as cook in Bergen Cottage. The patient was a female about forty years of age, who had continuously filled this position for several years past. She was first seen by a staff physician on August 22d, and on the morning of the following day, with a temperature of 103° F., accompanied with headache, nausea, &c., a clinical diagnosis of "intestinal intoxication, suspicions of typhoid" was made. On August 25th a blood specimen, examined in the State Laboratory of Hygiene, gave a positive Widal reaction.

Isolation of the patient was established in the building on August 24th, and the case was removed to the St. Francis Hospital, at Trenton, on August 30th, where a fatal termination occurred on September 7th.

From a careful study of the facts surrounding this case it was determined that the date of onset was between August 15th and

18th, in which case the date of infection most probably took place between August 1st and 5th.

The previous history of the infected person showed that she had been absent from the institution, on a vacation, from September 1st to 15th, inclusive, and again on August 14th and 15th. There is no knowledge that direct exposure to typhoid infection occurred during these absences from the institution, yet this may have been the case. The assumption that infection did take place during either of these leave of absences hardly coincides with the date of the onset.

From the fact that this patient continued to daily perform her duties as a cook, for a period of about one week following the beginning of her illness, and that food was prepared by her for 100 epileptic children and about twenty officials and attendants having supervision over them, it was apparent that a considerable number of persons might have been infected through the food supply.

It was not certain at this time that the source of infection which caused this case had not existed at the institution and that others had not had exposures which might later result in their illness. Diligent search was therefore made to determine this question, and active measures were instituted to prevent the spread of infection from the known foci in Bergen Cottage.

Among the efforts put forth to accomplish this purpose were:
1. Isolation of the case in the house in which it occurred, and the thorough disinfection of discharges, bedding, &c., until the patient has been removed to the hospital. 2. Disinfection and daily cleansing of all parts of the building most likely to become infected. 3. Daily physical examinations, including temperature readings, of all patients and attendants in Bergen Cottage.

Before the expiration of the incubation period had elapsed following the isolation and removal of the infected cook, four other inmates of Bergen Cottage showed suspicious symptoms of the disease and were removed to a building temporarily substituted for use as an isolation hospital. Three of these persons were male, and one a female, thereby suggesting that infection had been introduced among the occupants of both wings of the building.

Clinical symptoms which later developed in two of these cases were confirmed by Widal blood tests made on September 6th and

16th, respectively, and one of the cases proved fatal on September 17th. One other case gave one atypical, then one positive, followed by two consecutive atypical Widal reactions, but did not present clinical symptoms to justifying a diagnosis of typhoid fever. The illness in the fourth case proved to be due to other causes.

The onset in this group of cases was apparently from August 30th to September 6th; the date of infection presumably occurring between August 16th and 26th, therefore during the period of time when the infected cook was performing her duties while in the first stages of the disease which later caused her death.

On September 7th a positive Widal reaction was obtained on a specimen of blood which had been taken from an inmate of Meadowside Cottage. This specimen was taken by a staff physician upon observation of constitutional disturbances, accompanied by an elevation of temperature. The person was a particularly intractable individual from whom no reliable information could be obtained pertaining to his previous history, that would be helpful in making a clinical diagnosis. He was therefore placed in the isolation hospital for observation. The discovery of this suspicious case in Meadowside Cottage, injected a new and somewhat discomforting factor in the task of determining the source of infection causing the outbreak, and pointed toward a possible focus of infection outside of Bergen Cottage to which the entire population of the village might have been exposed. Water from certain springs which had been much used for drinking purposes fell under suspicion at this time, and they were promptly closed, by order of the management, pending investigation.

The development of the secondary cases in Bergen Cottage made sure of the existence of infection among the persons residing therein, while the suspicious case from Meadowside Cottage pointed toward possible existence of the infection elsewhere.

As a means of detecting infected persons who might not have been discovered by physical examinations, blood specimens were taken for Widal tests from each person residing in Bergen Cottage. This work was begun on September 11th and continued until the danger of other cases developing was believed to have passed.

In the efforts to locate a common source of infection outside of Bergen Cottage the water and milk supplies received special at-

120

tention. The regular water supply for the institution is derived from two sources, i. e., deep wells and brook water. The brook water is filtered before mixing with that from the deep wells, and the mixed supply is pumped to tanks and distributed under pressure to the various buildings on the institution grounds. Up to the time of this inquiry this general supply was thought to have been entirely satisfactory from the standpoint of safety, having been previously examined by the Division of Sewerage and Water Supplies. There are also several springs on the institution grounds, the water from which had been found particularly palatable and, regarded perfectly safe, was much used for drinking purposes.

As a result of new tests and examination of these sources of supply it was shown that both the general supply and the spring waters contain an excessive amount of coli, showing pollution which might be highly dangerous.

As soon as the results of these examinations were made known to Dr. Weeks, superintendent of the institution, immediate steps were taken to render the water supply safe, by chemical treatment, and to correct defects shown to exist in the construction or management of the filters. And for a time brook water, treated as above stated, was used exclusively, the springs and deep wells being temporarily cut out.

A physical examination was made of all persons working in the dairy as well as those residing in Pine Knoll Cottage, in which the dairy workers are housed. Blood specimens were also taken for Widal reaction from these persons. The physical examinations in this group of patients and employes were negative. blood specimen taken from one of the employes residing in this cottage gave a positive Widal reaction, and the suspect was removed to the isolation hospital for observation. There being no evidence of recent illness in this case, and the man remaining in normal health, he was released from the hospital after negative results had been secured on several specimens of feces and urine collected from him and examined for typhoid bacilli. man gave a history of having previously suffered three distinct attacks of typhoid fever, the last occurring about three years ago, which may account for the fact that repeated blood specimens from him gave positive Widal reaction.

Clinical symptoms subsequently clearing up in the suspect taken to the hospital from Meadowside Cottage, and examinations of feces and urine collected from him also proving negative, there remained only the original problem of dealing with infection in Bergen Cottage.

On account of the mental condition of the inmates of Bergen Cottage, mostly "low grade" epileptic children, the physician's task of detecting early symptoms of typhoid was rendered more difficult. Prevention of the spread of the infection by contact among these persons, through their unclean habits, was likewise more troublesome and uncertain than would naturally be found among persons of normal health.

It was therefore deemed advisable by the superintendent of the institution to give the inmates of Bergen, Meadowside and Pine Knoll Cottages the advantage of anti-typhoid vaccinations. It was thought by this treatment to protect the individuals, lessen the danger of the spread of infection, and by this means avert what then threatened to become an extended outbreak, and to lessen the cost of handling the same.

Inoculations were therefore begun on September 13th, and continued until all institution inmates in the three cottages above named had been inoculated. Vaccination was offered to all employes of the institution and was accepted by about one-third of their number. Each subject was given three immunizing doses, administered at intervals of ten days apart, the first dose containing 500 million and the second and third doses 1 billion killed bacteria. The seat of the injections was under the skin of the arm over the insertion of the deltoid muscle. No untoward or unfavorable effect followed the treatment.

Whether or not the immunization of the inmates of Bergen Cottage actually acted as a factor in preventing the occurring of other cases during this outbreak is of course problematical. That the conditions which surrounded the outbreak fully justified the treatment can hardly be doubted.

In considering the cost of protective inoculations for inmates of institutions such as the one in which this outbreak occurred, it would seem that it might be a justifiable prophylactic measure. The cost of the vaccine in this instance amounted to 33 1-3 cents for each individual treated. At this rate the material for vaccinating about 66 persons can be purchased for an amount equal-

122

ing the salary of a trained nurse for one week. Taking into account the length of time an average typhoid fever case requires the attention of a nurse, and that two nurses are desirable if proper care is to be given in these cases, no argument is necessary to show the advantage from a monetary standpoint, of typhoid vaccinations for those particularly liable to exposure to typhoid fever infection—if this treatment insures the immunity claimed.

The last case was discharged from the hospital on October 2d, forty-eight days following the onset of the first case in Bergen Cottage.

The urgent need of a hospital in connection with this institution has again been demonstrated by the occurrence of this outbreak. It so happened that a new institution building had just been finished, but not yet occupied, as this outbreak occurred. building was pressed into service as an isolation hospital and would have proved invaluable if an extended epidemic had followed. By a singular coincidence this same thing occurred at the time an outbreak of diphtheria which took place at this institution in the fall of 1909 and again in the fall of 1910. New buildings were nearing completion on both of these occasions and were pressed into use for isolation hospitals. It can hardly be presumed that the time of the completion of new buildings and the occurrence of outbreaks of communicable disease will always coincide in this institution, and the constant use of the dormitory buildings up to their full capacity makes it imperative in the successful handling of such outbreaks that the sufferers be removed to proper quarters for isolation and treatment. Such a place is not now available on the institution grounds.

SUMMARY.

- 1. The source of infection causing the illness of the cook in Bergen Cottage is not definitely determined, but most likely took place while she was away from the institution grounds.
- 2. The secondary cases occurring among inmates of Bergen Cottage was evidently contracted from the cook.
- 3. While this outbreak was apparently not due to an infected water supply, it incidentally brought out the fact that the institution's water supply was polluted and a threatening source of danger.
- 4. No common source of infection outside of Bergen Cottage apparently existed on the institution grounds.
- 5. No undesirable results followed anti-vaccinations, and this prophylactic measure may have been useful in averting a more extended outbreak.

CONTAGIOUS DISEASES ON DAIRY PREMISES.

When cases of certain contagious diseases occur in persons residing on dairy premises the attending physician was required by the provisions of chapter 47, laws of 1909, to report the facts directly to the State Board of Health within twelve hours after his professional visit upon the patient. The diseases which were mentioned in the act were those which are more commonly known to be milk-borne. They include scarlet fever, typhoid fever, tuberculosis, diarrhoea and dysentery. While this law met with general compliance by physicians throughout the State there were some who failed to observe its mandates, and it became necessary, in a few cases, to bring legal action for the collection of the penalties provided for.

In the first suit that was brought under the act counsel for the defendant raised a question as to the constitutionality of the title of the act. His point appears to have been well taken and was sustained by the court, and it therefore became necessary to secure additional legislation to correct the defective title of the law. A bill was introduced and passed (chapter 380 of the laws of 1911) at the last session of the Legislature which corrected the title of this act and made some additions to the text of the law which experience had shown to be needed.

The original act required that cases of certain communicable diseases occurring in persons residing on dairy premises should be reported by the attending physician to the State Board of Health. The amended law further provides that cases of such diseases occurring in the persons or families of individuals employed on dairy premises, though they may not reside thereon, shall also be reported by the attending physician direct to the State Board of Health.

The necessity for this requirement is apparent, when we consider that an employe living away from the dairy might have in his family cases of diphtheria or scarlet fever, and after being exposed to the infection go directly to the dairy and take part in the collection of milk. With this addition to the law and with the assurance that the law is constitutional, we are now in a position to enforce its provisions.

124 REPORT OF STATE BOARD OF HEALTH.

It is the practice in every instance where a case of communicable disease is reported among the workers on a dairy premises to learn, by personal investigation, all the facts surrounding the case. The inspector reports upon the isolation of the patient and attendant, and if there is apparent liability of the milk produced upon the premises becoming infected. If conditions are found which are likely to result in the infection of the milk a notice is served upon the owner of the dairy forbidding the sale or transportation of milk produced, stored, or kept upon the premises, until such time as the prohibition order may be withdrawn. By a special provision of chapter 67 of the laws of 1911, under which the prohibition notice is served, the sale of cream, butter, or other milk products, is included in the prohibition.

If, however, an arrangement can be made by which milk can be sold without endangering the public health this is permitted under such supervision as the circumstances surrounding the case appear to warrant.

It has been our experience that dairymen, with few exceptions, are willing to observe the reasonable precautionary measures demanded by the State inspectors and, in comparison with the number of dairies in which communicable diseases have occurred, few prohibition orders against the sale of milk have been issued. believe the enforcement of the law requiring the reporting of contagious diseases on dairy premises and the prompt action taken by representatives of this division has lessened in a marked degree the number of cases of communicable diseases which were formerly traceable to milk infected at the dairy. A table following this section of the report shows the location of dairies upon which cases of contagious diseases have occurred during the year ending October 31st, 1911, the nature of the diseases reported, and the number of dairies on which it was found necessary to prohibit the sale of milk, together with the dates on which the orders were issued and withdrawn.

The report of an investigation of an outbreak of typhoid fever, which occurred on a dairy premises located in Lumberton township, Burlington county, is also appended because of the unusual extent of the infection in the dairyman's family and of other rather interesting lines of inquiry connected therewith.

TYPHOID FEVER ON DAIRY PREMISES IN BURLINGTON COUNTY.

In accordance with instructions an investigation has been made of an outbreak of typhoid fever on the dairy premises located in Lumberton township, Burlington county. The owner of the dairy conducts a farm and a small dairy on which about fifty quarts of milk are produced daily and sold direct to consumers in Hainesport. There are nine members in the family, consisting of the father, mother and seven children, whose ages are between six and twenty years. A physician was called to see one of the children on July 23d, 1911. On the following day other members of the family were complaining.

Suspecting that the illness from which members of this family were suffering might be due to typhoid fever infection, blood specimens forwarded to the State Laboratory, from three members of the family, gave positive Widal reactions on July 29th. On August 2d blood specimens sent from three others gave positive reactions, and later the clinical diagnoses of typhoid fever in the remaining members of the family were confirmed by laboratory tests.

Acting on the advice of the attending physician the sale of milk was discontinued on the infected premises on July 29th, and the cows and utensils were moved to an adjoining farm, where the business was continued. Being assured that all cans and utensils that had been formerly used on the infected dairy had been sterilized, and that no member of the infected family was then assisting in the dairy work, no order was served prohibiting the sale of the milk.

The history of the outbreak showed that, as near as determined, the first case of illness on the premises occurred on or about July 20th. Other cases followed in quick succession, and within a week every individual of the household gave evidence of suffering from the infection. The explosive nature of the outbreak suggested that the infection came from a common source and that it had been contracted by all at about the same time. The time infection took place was presumably during the first week in July.

Considering these facts it was thought that the source of infection might be traced with a reasonable degree of certainty.

126 REPORT OF STATE BOARD OF HEALTH.

This was not so, however, for each line of inquiry pursued, when subjected to close analysis, ended with negative results.

A careful consideration of the facts obtained indicates that infection must have occurred on the premises, yet no clue to the channel through which it was introduced was found.

There is no reason to suspect that the cases were due to contact, nor that they were the result of fly infection, although these pests were numerous in all parts of the dwelling in which food was prepared and served.

The food supply was carefully inquired into without shedding any light on the subject under inquiry, yet some important article of diet may have been overlooked as information along this line was rather unsatisfactory.

Considering the source of infection to have existed on the dairy premises the following named conditions offered the most probable explanations:

1. Water Supply. There are two wells on the premises, one at the stable building and one at the dwelling. Water for use in the household and for washing milk cans and utensils is taken from the well at the house. This is a dug well, about twenty feet in depth, partly located beneath the kitchen floor. About onethird of the diameter of the well extends out from beneath the building and has a loose-fitting board cover. The pump is in the kitchen, and waste liquids are conveyed from the pump box through a pipe drain to a point about forty feet distant from the well, where a large pool of decomposing liquids formed on the surface of the ground. A leaching privy vault is located about sixty feet distant from the well. The surface and subsoil surrounding the well is a sandy loam with an underlying strata of gravel, thus affording good seepage. A sample of water was collected from this well on July 31st and examined, both chemically and bacteriologically, in the State Laboratory of Hygiene. The chemical analysis showed gross pollution, and coli were present in .1 cc. Efforts to isolate typhoid bacilli in this sample of water were unsuccessful.

Other persons than members of the family are known to have frequently used water from this well with no bad results and there appears no sufficient reason to assume that the well, though grossly polluted, contained typhoid infection.

2. Privy. As already shown, the privy is located about sixty feet from the dwelling. It is of the objectionable type so frequently found in rural districts and on small dairy farms. The back of the privy building is open below the seat line, affording chickens and other domestic animals easy access to the filthy accumulations overflowing the ground at the rear of the building. Doubtless many of the flies seen in and about the house were bred in or fed upon the human excreta so exposed beneath and around this privy building.

3. Fertilizing Material. A theory was advanced that infection had been brought to the dairy in stable manure procured at an undertaker's establishment. It appears that manure had been brought to the farm from this source for a period of more than two years. It is claimed that this manure frequently contained offensive matter, including evacuations from human bowels, bits of soiled garments, and, on one occasion, it is claimed that a portion of the

internal organs of a human body was found in the manure. These foreign substances were supposed to have found their way into the manure from a morgue and dissecting room maintained in the stable building on the undertaker's premises. It was further claimed that the body of a person dying of typhoid fever, in the Burlington County Hospital, had been prepared for burial at this undertaker's establishment just prior to the removal of a load of manure from the premises at about the time the family is believed to have become infected. This story was carefully investigated and it was found that this theory of the source of infection lacked some essential facts to support it, notwithstanding the apparent correctness of the statements about the foreign materials sometimes found in the manure.

It is claimed that the mother took entire charge of the milk production, including milking the cows. The milk was distributed to consumers by one of the sons. For a period of at least ten days, from the beginning of the outbreak, until the production of milk was discontinued on the premises, the mother acted as nurse to members of her family ill with typhoid fever, and a portion of this time she was also a sufferer from the disease. As above stated, the cans and utensils were washed in polluted well water. And yet no case of the disease is known to have occurred in persons who consumed the milk produced on these infected premises. Three of the nine cases were treated in the Burlington County Hospital and the others at their home. All recovered.

The cows were taken back to the dairy during the first week in September, and no recurrence of the disease has made its appearance up to this date.

TABLE 1.—SHOWING LOCATION OF DAIRY PREMISES ON WHICH CONTAGIOUS DISEASES WERE REPORTED DURING YEAR ENDING OCTOBER 31, 1911.

LOCATION OF	DAIRIES.	ja.	ever.	fever.	losis.	T.	Place to which	SALE PRO	HIBITED.	
Sanitary District.	County.	Diphtheria.	Scarlet f	Typhold	Tubercu	Dysente	milk was shipped.	Date of prohibition.	Date order with- drawn.	
Pleasantville Bor-		-			1	ī	1			
ough Garfield Borough	Atlantic Bergen		ï	1	1	1	Pleasantville		l	Isolation. Local Board.
Garfield Borough Garfield Borough	Bergen	1	•	· • • •		***	Garfield			DUMPIU DUMPU
Garfield Borough	Bergen	i	•••				Garfield			Local Board
Bordentown Township	Burlington	١,					West End			Isolation
Burlington City Lumberton Town-	Burlington Burlington	; .	ï				West End Burlington			Isolation.
Lumberton Town- ship	Burlington			1			Hainesport	July 81	Sent. 12	I
Springfield Town-		ĺ	1			144	C. C	02		
ship	Burlington	•••	2		***	***	Wrightstown Creamery	l		Isolation.
Springfield Town-	D		١.					1		
ship Springfield Town-	Burlington	·	1				Camden			Isolation.
ship	Burlington		1	١		100	Wrightstown			Tooletton
Westampton							Creamery			Isolation.
Township	Burlington		1	ļ			Palmyra and Mt. Holly	•		Tooletton
Delaware Town-				ł		1		1		
ship Hopewell Town-	Camden		1	٠	***		Camden			Isolation.
snip	Cumberland			់ 1		42.	Bridgeton	 		Isolation.
Stow Creek Town- ship	Cumberland			i		1	Philadelphia, Pa	Ian 6	Ion 16	ļ
South Orange Vil-		į			***	1		Jan. 0	i	
lage Clayton Borough,	Essex		1			791	South Orange	Sept 91	Nov 6 '11	Local Board
Clayton Borough	Gloucester		···	i			Clayton	Sept. 22	Oct. 13	
Harrison Town-	Gloucester	1		t		П			l	Isolation.
ship Mantua Town-		1	1	!	10	1		1		
ship Clinton Borough	Gloucester Hunterdon	•••	7	<u>'</u>	1		Roselle Park			Isolation.
Clinton Township,	Hunterdon			2	90		Annandale Cream-	l		
Readington Town-	1		ĺ			Ι.	ery	Oct. 28, '10	May 25, '11,	
ship	Hunterdon		1	ļ		16	North Branch	ĺ	ļ	
Readington Town-		ł		i	h		Creamery			Isolation.
ship	Hunterdon		١		1		Readington Cream-	1	i	Isolation.
Readington Town-	İ		!				ery			isolation.
ship	Hunterdon	ļ	¦	,	1		. Readington Cream-		J	Tooletion
Readington Town-				i			ery		1	Isolation.
ship	Hunterdon	٠		ļ	1	44		`		Isolation.
Readington Town- ship	Hunterdon	l	١	l	1		North Branch	1	ļ	
•			1	1			Creamery			Isolation.
West Amwell Township	Hunterdon	 .	1		199		Butter made (sold	1	Į	1
West Amwell							in Lambertville).	Nov. 28	Dec. 19, '10	1
Township	Hunterdon		1	ļ	344		Butter made	Nov. 80	Dec. 19, '10	.}
West Amwell Township	Hunterdon		1		1	-	.Trenton			Isolation.
West Amwell			1 -	1			i	1	1	
Township West Amwell	Hunterdon		1			·	Lambertville	Mar. 20	Apr. 17, '11	1
Township	Hunterdon		1	ļ	·	١	Lambertville	ļ	ļ	Isolation.
West Amwell Township	Hunterdon		1	_			Lambertville		i 	Isolation.
Ewing Township							. Trenton			Isolation.
Hopewell Town-	Mercer	١.	ļ	1	1		Lindly Sta., Pa	!	!	Teoletion

TABLE 1.—SHOWING LOCATION OF DAIRY PREMISES ON WHICH CONTAGIOUS DISEASES WERE REPORTED DURING YEAR ENDING OCTOBER 31, 1911—Continued.

LOCATION OF	DAIRIES.	ria.	ever.	fever	losis.	2	Place to which	SALE PRO	HIBITED.	•
Sanitary District.	County.	Diphthe	Scarlet f	Typhold	Tuberculosis.	Oysente	milk was shipped.	Date of prohibi- tion.	Date order with- drawn.	
lopewell Town- ship	Mercer	i	l		1	1	Trenton			Teoletion
lopewell Town- ship		1		•	1	1	Frankfort, Pa		l	
Innewell Town.		1	1	1	1	1	Philadelphia, Pa			•
lopewell Bor-			ı	ŧ.	1	4				
ough renton City	Mercer	ī	٠ ن	1		٠	Hopewell Trenton			Isolation.
							Trenton			
ast Brunswick	Middlesor		!	'	1		South Diver	1	1200.21, 11	Teoletion
onroe Township,	Middlesex	i					South River Long Branch			Isolation.
lownship	, Middlesex	;	1	ļ		ļ	New Brunswick			Local Boar
orth Brunswick Township	Middlesex		1 1	ļ			New Brunswick		ļ	Isolation.
outh Brunswick Township			۱.	١	١		Trenton			
tlantic Town- ship	1		1	1	i.	l L	Shrewsbury	1	1	
Intina Town	1	1	1			1	1	1	1	
Vall Township	Monmouth		į	j		•••	Asbury Park	[Isolation.
over City	Morris	· i · ·	<u>.</u> 1	' .			Dover		·····	Isolation.
over City	Passaio	. 1	1:	1		,	Dover			LOCAL BOAR
assaic City	Passaic	1				1				Local Boar
syne Township,	Passaic	i	١				Paterson			Local Boar
									• •••••••	Local Boar
Creek	1		. 1	1	1		Creamery		1	Isolation.
ilesgrove Town	Salem	١,	 		1 .	١	Philadelphia, Pa		·	Local Boar
itsgrove Town	.: .:Salem] !		1	١	Elmer	Oct. 27	Dec. 29, '10.	
ship	Salem			1		١	Philadelphia, Pa	Oct. 9. '11	l	
pper Pittagrove Township					1			1		1
eiminster Town	·i				1		Peapack			1
ship Jedminster Town	-		1							1
shipg		1	i	1	1	1	Peapack			isolation.
	Somerset	.]	l	i	1	1	North Branch Creamery			
ship	Somerset	ĺ		١,	i 	İ.,	New Brunswick			Discon. Vo
Contgomery Township	1	1	,				Hanamall Cropm	1	I	
orth Plainfield			1	1			ery			Isolation.
Borough	Somerset	. 1	ι¦		·		North Plainfield	ļ		Local Boar
rankfort Town- ship		ļ	. 1	ļ	ļ		Borden's Cream-			
Hampton Town-					1	İ	' ery	•	• •	1
ship	Sussex	1	· ··	1	۱ <u></u>	¹	Borden's Cream- ery Newton	İ.,		Isolation.
Sewton Township Stillwater Town-	Sussex	.! 1	۱			١	Newton			

TABLE 1.—SHOWING LOCATION OF DAIRY PREMISES ON WHICH CONTAGIOUS DISEASES WERE REPORTED DURING YEAR ENDING OCTOBER 31, 1911—Continued.

	-		
LOCATION OF DAIRIES.	Signature of the control of the cont	SALE PROHIBITED.	
Sanitary District. County.	Rearlet fever. Typhoid fever. Typhoid fever. Typhoid fever. Typhoid fever. Typhoid fever. Typhoid fever. Typhoid fever. Typhoid fever.	Date of prohibition. Date order withdrawn.	
Sussex Borough Sussex	1		Isolation
Wantage Town- ship	1		
ship Sussex	1 Horton's Cream- ery		Isolation.
Fanwood Town- ship Union	1		Local Board. Isolation.
Plainfield City'Union Union Township Union	l Plainfield Newark Union		Local Board. Isolation.
Union Township, Union	. 1 Maplewood and South Orange		Isolation.
ship	1 Easton, Pa		Isolation.
Township Warren			Isolation.

SANITARY INSPECTION OF SCHOOL BUILDINGS.

Under the provisions of the original act creating the State Board of Health and defining its powers and duties it is required that investigations shall be made into the sanitary conditions of school buildings. While investigations have been conducted of school buildings in former years, in special cases, where some glaring defect was alleged to exist, no uniform and systematic method of conducting these inspections was inaugurated until the past year. The following blank form has been prepared for use in this work:

BOARD OF HEALTH OF THE STATE OF NEW JERSEY.

DIVISION OF MEDICAL AND SANITARY INSPECTION.

RECORD OF SANITARY INSPECTION OF SCHOOL BUILDING.

1.	Name of school building
2.	Location
	Town County
3.	School district
4.	Name and post-office address of Principal
5.	Name and address of Secretary of the Board of Education or District
	Clerk
6.	Total number of class-rooms
7.	Enrollment of pupils Average daily attendance
8.	Size of lot
9.	Surface covered by buildings
10.	Height of building
11.	Date of erection
12.	Material of construction
13.	Nearness and height of surrounding buildings
14.	Fire escape on building
	Yard, for what purpose used
16.	Privy vault on premises Size
	Location
	Condition
17.	Cesspool Construction
	Condition
18.	Any objectionable accumulation on premises or adjoining premises?
	CELLAR.
19.	Cellar under entire building
	Depth beneath ground surface
	Material and condition of cellar bottom
22.	Number and size of windows
	Is cellar well lighted?
	Is called damp?

PLUMBING, DRAINAGE AND WATER-CLOSET APARTMENTS. 25. Is building connected with sewer?..... 26. Any leaks or defects noted in drains?..... 27. Size and location of water-closet apartments..... 28. Material and condition of floors..... 29. Number and size of windows opening to outer air...... 30. Ventilation of apartment..... 31. Cleanliness of apartment...... 32. Number and style of water-closets...... 33. Are water-closets in good repair?..... 34. How flushed?...... 35. Number and style of urinals..... 36. Are urinals in good repair?..... 38. Cleanliness of fixtures..... 39. Any disinfectant or deodorant used in fixtures or apartment?..... Kind 40. Are there facilities for pupils to wash hands after using closets or urinals? HEATING, LIGHTING AND VENTILATION. 42. Method of lighting..... 43. Method of ventilation..... 44. Location of fresh air intake..... 45. Size and construction of fresh air duct..... 46. Any visible sources of contamination of fresh air supply?..... WATER SUPPLY. 47. Source of water supply..... 48. Is water supply delivered through tank?..... Location...... Condition..... 49. Location of well...... 50. Is well driven or dug?..... 51. Depth..... How covered?..... 52. Surroundings 53. Sample taken...... Number...... Result....... 54. Are drinking cups used in common?..... 55. Are there drinking fountains in building?..... Number..... Location...... HALLS. 56. Length..... Width..... Height..... 57. Exits 58. Light 59. Ventilation 60. Do doors swing in or out?..... 61. Cleanliness of hall.....

CLASS-ROOMS.

62.	Designate room
	Total enrollment Greatest average attendance for any pre-
	ceding month
63.	Size: Length Width Height
	Cubic contents
	Square feet of floor space per pupil
	Cubic feet of air space per pupil
	Number and size of windows
	Percentage of light to floor space
98.	Light enters from E., W., N., S
70	Are there window shades to control volume of light Desks face E., W., N., S
	Color and finish of ceiling and side walls.
	Do doors swing in or out?
	If swinging doors, have they plate-glass panels?
	Style of desks and seats
75.	How frequently are seats and desks adjusted to pupils?
76.	Adjustment at time of inspection
	Material of construction and condition of floor
	Number, size and location of fresh air inlets in class-room
	Number, size and location of vitiated air outlets
	Amount of fresh air entering through inlets per minute
81.	Temperature of air at inlet Outlet
	At breathing line
	Humidity of air in room
83.	Was air tested for CO ₂ Result
	At what time?
	Weather conditions and temperature of air out of doors
	Objectionable odors noted in air in class-room?
	Are furnishings and ledges free from dust
	Any facilities for washing hands?
00.	Kind of towels
90	Are slates used by pupils? If so, how cleaned?
	Are individual pencils and penholders used?
	Are pencils and penholders distributed and collected daily?
	Are they disinfected after each collection?
	How?
92.	Location of cloak-room
	Separate compartment for each pupil?
	Light and ventilation of cloak-room
95.	Is approach to fire escape clear?

MEDICAL INSPECTION. 96. Name and address of Medical Inspector..... Date of appointment..... 97. Frequency of Inspector's calls..... 98. Has Board of Education adopted rules for guidance of Medical Inspector? (Procure copy if available.) 99. Are blank forms used by Medical Inspectors in making records?..... (Procure copy if available.) 100. Number of lectures given before teachers by Medical Inspector during each term 101. Are unvaccinated pupils or teachers permitted to attend school?..... 102. Number of unvaccinated pupils in school...... Teachers..... 103. Are pupils or teachers residing in dwellings in which infectious disease exists excluded from school?..... 104. Are pupils and teachers required to present a written permit upon return to school after exclusion on account of infectious disease?..... Who issues permit?.... JANITORIAL SERVICE. 105. Method, frequency and time of sweeping class-room floors..... 106. How is dust removed from furniture and ledges?..... 107. Are floors oiled?..... How frequently?..... 108. Method and frequency of scrubbing floors..... 109. Method and frequency of cleaning desk-tops, chairs, hand-rails, door-knobs and casings 110. Method of disinfecting school-rooms after a case of infectious disease occurs By whom performed?.... 111. Describe any appliances for disinfecting kindergarten equipment...... 112. How frequently used?..... 113. Has school a gymnasium?..... Are there special instructors?..... 114. Any facilities for bathing?.....

Inspector.

No legal power has been conferred upon the State Board of Health to require improvements in conditions inimicable to health found to exist on school premises, and in order that the information gathered from inspections made of such buildings by this division might be used to bring about the desired improvements, where objectionable conditions are found to exist, an arrangement has been made by which the results of the inspections are placed in the hands of the State Board of Education, which has mandatory power under the school laws to require such improvements as are found necessary in each individual case.

Describe them

The results of the work thus far accomplished in the inspection of public school buildings has clearly shown that much good might result from a thorough and systematic sanitary inspection of every school building in the State. There are in the State of, New Jersey over two thousand school buildings which would require at least two inspectors for more than a year to cover the entire field. Mr. George T. Palmer, an inspector of the Division of Medical and Sanitary Inspection, was delegated to make inspections of school buildings, and a summary of the inspections of school buildings and a summary of the facts contained in the reports of these inspections follows:

During the period from March 1st to June 1st of the current year sanitary inspections of thirty public school buildings have been made.

RURAL SCHOOLS.

The major portion of the school inspection work has been done in rural schools having but one or two class-rooms. Eighteen of the rural school buildings inspected are located in Mercer county, two in Hunterdon, two in Somerset and one each in Atlantic, Camden and Morris,

Rural school buildings being isolated and out of reach of public water supplies or public sewers, such matters must be looked after by each school separately. One of the most glaring omissions in sanitation at rural schools is the lack of proper provision for the storage and disposal of excrement.

PRIVY ACCOMMODATIONS.

All of the 25 rural school buildings inspected are provided with outdoor privy buildings. At 19 school premises excrement is deposited directly upon the surface of the ground beneath the privy building. Six privies were found beneath which there were earth or stone lined vaults, and only three buildings were provided with portable wooden box containers. At 11 schools the privies were so constructed that excrement drained out from beneath the building onto the adjoining ground or was deposited there primarily. Not a single privy building was found to be screened to prevent

flies from gaining access to the accumulations beneath the seats. In several instances the back walls of the building did not extend to the ground so that the accumulated filth beneath the building was not only exposed to view but also accessible to fowls and other domestic animals having access to the school grounds. The privy buildings were for the most part in good repair, although in two instances boards had been broken from the sides of the building, and in two other instances the seats were demolished and had fallen down upon the accumulations beneath the building. Only four of the schools can be credited with having clean privy build-The seats, floors and interior walls in some cases were soiled to a disgusting extent. Lighting and ventilation of the privy buildings is another feature universally neglected. At only one school were the privy buildings provided with adequate win-In a few instances there was a narrow slit in the dow openings. door or sidewalls through which air and light could enter. The proper lighting of privy buildings is worthy of considerable attention. It is not at all strange that a child should soil the seat or his person in using a privy building that is utterly dark when the door is closed. A dark privy is thus conducive to filthy conditions and unclean habits, and demands more frequent cleaning which, if neglected, discourages pupils from making proper use of the building which may be followed by harmful results to the The presence of a wooden fence about the privy to screen the doorway at least permits leaving the door open to admit light while the privy is in use, but the door is not intended for this purpose and should not be depended upon to supplant adequate window space. Toilet paper was not furnished at any of the privies inspected.

WATER SUPPLY.

Drinking water is almost invariably taken from wells. Of the 25 rural schools, 12 obtained water from wells less than 25 feet in depth, 8 from wells more than 25 feet deep, one from a spring and one from the mains of the town supply. In three cases the depth of the well was not determined. Nine schools have either wells or springs on the school premises, 15 depending upon wells located on neighboring private property.

It was not convenient to take samples from all of the different supplies for analysis and nothing can be said as to the quality of the water in these cases. Six supplies were subject to surface drainage, however, or the wells had a defective curb protection. One private shallow well was located on the edge of a barnyard. At 16 schools drinking water was stored in the class room or cloak room in an uncovered pail, where it was exposed to contamination by dust, unclean drinking cups and the soiled hands of pupils. Only two schools were provided with covered metal water coolers from which water was drawn through a faucet.

A common drinking cup was found in use at each school visited. At many schools a majority of the children were provided with individual drinking cups, but a common cup was also accessible near the water pail, or at the well.

WASHING FACILITIES.

A portable wash basin was generally found near the water pail, but soap and towels were rarely provided. In cases where towels were furnished the supply was never sufficient, a single towel frequently serving for the use of 30 pupils for two weeks. In a few schools some pupils had individual towels. In some cases towels are furnished by the teacher or in turn by the pupils, the school authorities making no provision for either soap or towels.

HEATING.

Seventeen schools were heated by coal stoves located in the classroom. Six schools were heated by hot air furnaces located in the
cellar, and two schools had steam heat with direct radiation. The
objection to stoves located in the classroom must be apparent.
Pupils seated near the stove are subjected to uncomfortably high
temperatures, while at the same time pupils further removed from
the source of heat may actually suffer from cold. The single
small classroom of one school, in Montgomery township, heated by
a stove in the center of the room, was most uncomfortably warm
at the time of the inspection. Several schools, with a single classroom, were provided with hot air furnaces located in the cellar.

This method of heating is a great improvement over stove heating, as it not only furnishes more even temperature but also improves the ventilation of the classroom.

VENTILATION.

Rural schools inspected depend for their ventilation wholly on the natural exchange of air which takes place around doors and windows.

POPULATION OF CLASSROOMS.

Of the 39 classrooms, representing 25 rural schools, 7 had a floor space of less than 18 square feet per pupil, and 3 had less than 15 square feet per pupil. Ten classrooms had less than 200, and one less than 150 cubic feet of air space per pupil. The rural classrooms are not, however, as subject to overcrowding as schoolrooms in city schools.

LIGHTING OF CLASSROOMS.

In thirty class rooms the ratio of light area to floor space was less than 20 per cent. In 16 classrooms this ratio was less than 15 per cent. The amount of light entering the classroom is sometimes further diminished in the rural school buildings by the close proximity of shade trees thereto. Nine of the 39 rural schools received light from the left, rear, or left and rear of the pupils. There were four classrooms in which pupils sat directly facing the windows.

SEATS AND DESKS.

Non-adjustable seats and desks, accommodating two or more pupils, were in use in 26 classrooms. Eight rooms were fitted with single non-adjustable seats and desks, and in only three rooms were single adjustable seats and desks in use.

CLOAK ROOMS.

Nearly half of the rural schools visited were without separate cloak rooms, pupils' coats, hats, rubbers, umbrellas, lunch boxes, &c., being kept in the classroom where the odors and dust from the fabric of the garments is added to the already vitiated air in the classroom. There was no provision for separating the garments belonging to different pupils, hooks being placed so close together that adjoining garments hung in direct contact.

JANITORIAL SERVICE.

Rural schools are for the most part without the services of a paid janitor. Sweeping, dusting, cleaning of woodwork and caring for the stove or furnace, is done by the teacher or some pupil who occasionally receives slight remuneration for this service. Inquiry shows that portions of the woodwork of the classroom which is not subject to frequent handling is rarely washed with soap and water. Sweeping is usually done three times a week, and the floors do not receive a scrubbing oftener than once a year.

CITY SCHOOLS.

Inspections have not been made of a sufficiently large number of the large buildings found in more thickly populated centers to warrant drawing general conclusions. Enough work has been done, however, to justify the statement that overcrowding, bad lighting of classrooms, inadequate ventilation and heating of buildings and poor janitorial service is more common, even in comparatively recently constructed school buildings, than might be suspected.

Determinations of carbon dioxide and humidity have been made in a number of rooms in some of the larger buildings inspected. These tests were made by means of an instrument of the Peterson and Palmquist pattern, modified by Dr. C. T. Graham-Rogers, of the New York State Department of Labor. In this test a measured amount of air is washed in caustic potash, the subsequent reduction in volume of the air representing the CO₂ content. Air samples and temperature readings were usually taken in the center of the classrooms on a line with the heads of the pupils.

CONCLUSIONS.

In concluding, several matters might be generally touched upon that concern both urban and rural schools alike.

Now that the law prohibiting the use of common drinking cups has become effective the way is paved to abolish this common offender against school hygiene. It was apparent that the real danger from the common drinking cup was not fully appreciated by either pupils or teachers. The purpose of banishing the common drinking cup is to the end that one of the ready means of transferring the saliva from the mouth of one person to that of another might be removed. In several instances individual cups were found grouped together on a window sill or shelf and different children were observed to select from the array before them the same cup that had just been used by another. At one of the rural schools a girl pupil very proudly displayed her individual drinking cup and then, at recess period, she presided at the pump and furnished an admiring group of friends with drinking water from this same individual cup. Some satisfactory type of drinking fountain is the solution for school buildings.

Adjustable seats and desks are no more commendable than the non-adjustable type unless advantage is taken of their adjustability. In several instances pupils were observed sitting at seats and desks which had not been adjusted to their height. So long as the pupils made no complaint the teacher made no effort to have the seat properly adjusted.

The cloak rooms in all schools visited are so arranged that wraps belonging to different pupils overlap those on adjoining hooks. The hooks should be further separated or partitions put in to separate the garments. Numbering the hooks and having pupils always use the same hook falls short of accomplishing the desired purpose.

Repeated emphasis might well be placed on the desirability of having light, spacious and well ventilated toilet apartments. The use of white painted woodwork, white tile or porcelain walls show the observer at a glance where a lack of cleanliness exists. Concealing dirt does not eliminate it.

The use of disinfectants and deodorizers in toilet apartments is unnecessary if these apartments are properly cleaned and ventilated. The odor from some of the so-called deodorizers are as objectionable, if not more so, than the odors they are intended to effect. The suspension of volatile disinfecting substances about the rooms and halfs of a school building is of no practical value. At several school buildings this custom was followed. The odor of the disinfectant was strong enough to be irritating to the mucous membrane of the eyes, nose and throat but not powerful enough to destroy micro-organisms in the surrounding air, besides their presence creates in the minds of teachers and pupils a false sense of security, so that important and well advised precautions are apt to be neglected.

MEDICAL INSPECTION.

An amendment to section 229, chapter 92 of the laws of 1909, reads, in part, as follows:

"Every board of education shall employ a competent physician to be known as the medical inspector and fix his salary and term of service. Every board of education shall adopt rules for the government of the medical inspector which rules shall be submitted to the State Board of Education for approval.

"The medical inspector shall examine every pupil to learn whether any physical defect exists, and keep a record from year to year of the growth and development of each pupil, which record shall be the property of the board of education, and shall be delivered by said medical inspector to his successor in office. Said inspector shall lecture before the teachers at such times as may be designated by the board of education, instruct them concerning the methods employed to detect the first signs of communicable disease and the recognized measures for the protection of health and the prevention of disease."

Medical inspectors had been employed in 29 of the 30 schools inspected. It could not be learned from the teachers whether or not local boards of education had adopted rules outlining the work for their medical inspector. In 22 schools the medical inspectors had visited the school at least once a month. Records of

physical examination of pupils had been made, but these records were in most cases in the custody of the inspector and were not at the school building. At two schools in Montgomery township no visits of the medical inspector had been made from September 1st, 1910, to March 1st, 1911. The medical inspector at another school in Hunterdon county had made two visits in seven months. The giving of lectures by the medical inspector before the teachers, as provided for in the law, is not commonly followed, as no lectures had been given in 24 of the schools visited. Failure to observe this provision of the law probably lies more with the boards of education who are expected to set a date for such lectures.

Statistics on vaccination are somewhat meagre because of the absence of the physical examination records from the school building at the time of the inspection. From the records inspected of 2,200 pupils it was found that 224, or 12 per cent., were unvaccinated. Nearly the entire number of unvaccinated pupils belong to the rural schools.

NUISANCES.

The abatement of nuisances is one of the powers conferred upon local boards of health by legislative enactment. This branch of service rendered by local boards is not of such importance as to warrant the time and money spent upon it. There are so many other branches of the work yielding immediate and valuable results such as the oversight of communicable diseases, the dealing with the problem of clean milk and the safe water supplies, that the abatement of nuisances seems of minor importance. To the general public, however, the abatement of nuisances is thought to form the principal part of local board of health work, and private individuals are quick to advise local health authorities of existing nuisances and loudly call for their abatement to the exclusion of work having more direct bearing on public health but not so apparent to the untrained observer.

There is, however, a relation between nuisances of a certain character and public health work which local health authorities cannot ignore and over which they must exercise their legal authority. Among these are accumulations of filthy materials where flies may breed, pond holes and undrained areas in which mosquito larva

breed, overflowing cesspools and privy vaults, in which flies have access to human excrement and deposits or accumulations of polluting materials near wells or on public watersheds and other nuisances of a similar type. There is also an indirect relation which nuisances bear to health, applying more especially to nuisances that give rise to foul odors, injurious trades, and bad housing conditions which in time may lower the general health tone and renders one more liable to the invasion of infection.

The laws of our State very wisely leave to each local board of health the power to determine and define what nuisances are, but the law does not give such boards the right to define nuisances which, although a source of discomfort, are not necessarily a source of ill health.

Local boards of health have been slow to learn that the underlying principle of our health law is that in each locality the rules governing the abatement of nuisances shall be laid down by ordinance. They do not generally realize that the many subjects on which the State Legislature has authorized them to pass ordinances afford them ample opportunity to provide by ordinance a most excellent system of sanitary government. They do not realize that without supplemental local legislation their powers are confined within very narrow limits. The first step therefore in dealing with nuisances is for local boards of health to pass ordinances declaring and defining what nuisances are dangerous to the public health and providing a penalty for the violation of the same.

There is a great variance in ordinances adopted by various boards of health bearing on the same subjects. This is a subject, however, that has been somewhat difficult of control, and efforts thus far put forth by the State Board of Health have not been fruitful of results in this respect. Several difficulties stand in the way. First. The law extends to local boards power to pass ordinances on given subjects, leaving the framing of the ordinance to bring about the desired result in their hands. It is not strange that, under these conditions, and particularly so when the framing of such ordinances is, at times, performed by persons unfamiliar with the subject on which they are to establish laws, many ordinances are defective.

Second. Local boards about to adopt ordinances frequently copy from those adopted in other localities and are not always fortunate in selecting as a guide ordinances which have been wisely

prepared and recently revised to conform to the latest knowledge and practice in sanitary administration.

Third. It sometimes occurs that ordinances applying to a particular condition in one sanitary district have no practical application in another.

It would, therefore, be of great benefit if a method could be devised by which more uniformity could be brought about in the adoption of local health ordinances.

Several years ago the State Board of Health formulated a code of ordinances as a guide for the use of local boards of health in cities, boroughs and townships of the State. This form has now become obsolete, however, by reason of accumulated knowledge in sanitation and improved methods of application of this knowledge to preventative health work.

The aid of this division has been sought and given in the investigation and abatement of nuisances in 24 sanitary districts throughout the State during the past year, beside, innumerable cases have arisen in which advice has been given to local board officials as to the proper legal procedure to follow in the abatement of nuisances.

ANTI-TUBERCULOSIS CAMPAIGN.

By the authority of an act of the Legislature passed in 1910 a special appropriation was made available on November 1st, of the present year, the moneys appropriated being for the purpose of enabling the State Board of Health to carry on an educational campaign against tuberculosis. The Board is at the present time preparing to carry on this campaign more vigorously than ever before. Heretofore the Board has issued circulars on the prevention of tuberculosis, but most of the diffusion of information as to the care and prevention of the disease has been accomplished through voluntary organizations. The splendid work of these charitable and philanthropic agencies, both State and local, has been of inestimable value in molding public opinion and securing adequate legislation as well as spreading the knowledge concerning the methods of prevention. There has been a growing belief among a number of these organizations that the educational work which is really the foundation of all measures looking toward the prevention of tuberculosis should be carried on by the State. result is that the special law has made the proposed educational

campaign by the State Board of Health possible. The tools for use in conducting this work are already being put in shape. The oversight and supervision of the work is under the Division of Medical and Sanitary Inspection of the State Board of Health. Dr. Millard Knowlton, who has been engaged in similar work in New York City, has been selected to carry on the campaign. An exhibit is in the process of construction. Literature for distribution at the exhibit to be held and through other channels is being prepared for publication, and all the preliminary arrangements are being pushed forward with as much speed as is compatible with thoroughness. It should be possible to begin actual work soon after the first of the year 1912. An effort will be made to have the exhibit as interesting and practicable as possible. It will include some new and unique features that cannot fail to engage the attention of the people. A feature will be made of moving pictures. The many excellent films now obtainable on tuberculosis and other health subjects will be shown. The tentative plan is to hold the exhibit open for a week in a given community. Prior to the exhibition the representative of the State Board of Health will make an especial effort to interest the women's clubs, the lodges, the labor unions and the boards of education of the locality in the movement. The complete program for the control and prevention of tuberculosis in the State will be directed along three lines:

1. The registration of all cases by the State Board of Health which must be accomplished with the co-operation of local boards of health and physicians.

2. The education of the public by means of the exhibit, the distribution of literature, lectures, newspaper publicity, moving pictures, posters, instruction in schools, and such other methods as may be advantageously employed. In this service the State Board of Health will work in co-operation with the various other agencies and organizations with the local communities, and local boards of health and local organizations will co-operate in their own communities.

3. The provision of adequate facilities for hospital, dispensary, home and sanatarium care of consumptives. Primarily this must be done by the local communities, chiefly by the counties. The State Board of Health will cooperate with advice and information, or in any other way within its power.

The carrying out of this comprehensive program cannot be entrusted wholly to any one agency. There is something for every one to do. The State Board of Health desires to render all possible service, and to co-operate with all good citizens in relieving human suffering and saving human lives. Such efforts as have been outlined will, if successfully carried out, doubtless lead to great achievements.

Report of the Division of Creameries and Dairies.

George W. McGuire, Chief.

To the Board of Health of the State of New Jersey:

Gentlemen—I have the honor to submit herewith the annual report of the Division of Creameries and Dairies for the year ending October 31st, 1911.

Inspection of Dairies.

In our supervision of dairy conditions this year we have followed our usual custom of giving precedence in the matter of inspections to those local boards of health that have invited our assistance in the investigation of their milk supplies. thirty municipalities applied for full reports of all their sources of supply, and our records this year show that 38 local boards have requested these investigations. The additional municipalities from which such requests have been received this year are: Cliffside, Glen Rock, Haddonfield, Madison, Moorestown, Point Pleasant, Ramsey, Raritan, Riverton, South Orange and Verona. The list of local boards of health which have taken special action in fixing a minimum sanitary standard for dairy premises has also increased during the year. The following municipalities have adopted ordinances, making it a necessary requirement for each dairy to receive a rating of at least 60 per cent. on the State score-card as a prerequisite to selling milk within their limits: Bordentown, Burlington, Collingswood, Dover, New Brunswick, Orange, Perth Amboy, Riverton, Salem and Trenton. Park, Metuchen and Paterson have passed resolutions requiring the same standard.

The number of dairy inspections made during the year was greater than that of last year by 396, the total being 1,874, as against 1,478 in 1910. The following table shows the result of the dairy inspections for both years:

YEAR.	Fotal number of inspections.	Number scoring above 60≰.	er cent. above 60%.	Yumber scoring below 60%.	er cent. below 60%.
	::	2	F4	Z	P4
1910	1,478	714	48.3	764	51.7
1911	1,874	982	52.4%	892	47.6

These figures show that there has been a great improvement in the sanitary conditions found on dairy premises, and that better methods are used in the handling of milk for public consumption. Not only is this improvement shown in the dairies which we have inspected a number of times, but the initial inspections of many dairies show that the general standard of sanitation among dairies in the State has perceptibly advanced from what it was a few years ago. This gradual improvement of standards is the natural outgrowth of the more stringent regulations of health boards.

This improvement is further shown by the number of veterinary certificates which have been received this year. On every inspection the owner of a dairy is left a blank form which he is requested to have filled out by his local veterinarian, and to return to this These reports show how many of the animals in the herd have passed a physical health inspection; how many were tuberculin-tested, and whether or not any of the cows were suffering from any udder or other disease. Last year only 91 of these reports were received properly filled out, and this year 254 reports have been received. These 254 reports represent the examination of 5,173 animals. Sixty-one herds were represented to have been tuberculin-tested. Several local boards of health are seriously considering the matter of requiring a certificate showing that all animals in the herd have passed the tuberculintest before permitting the milk to be distributed within their jurisdictions.

We have been requested by several health boards to investigate the condition of dairies outside of this State where such milk represented a part of their supply. We undertook to comply with these requests as far as our means would allow. In this connection, two inspectors were sent to Chenango, Broome, Cortland, Tompkins and Sullivan counties in New York State, and to Susquehanna, Wayne and North Hampton counties in Pennsylvania. In all there were 181 of these dairies inspected and scored, and the local boards of Rutherford and South Orange, at whose request the inspections were made, insisted upon the same management in these dairies as in those of this State whose product entered into their supply. In order to comply with future requests of this character, it will be necessary for the local boards to defray at least a part of the expense. This has already been done by South Orange, and other boards have intimated that they will be willing to do so.

A number of local boards requested our officers to make an inspection of their local milk depots at the same time that the dairies were being inspected, in order that they might have a complete record of every condition of the supply. This work, we think, should be done by the boards in whose localities the milk is consumed. Every milk shop should be licensed by the local board of health within whose jurisdiction it is situated and should be required to be provided with every essential for the safety and clean keeping of the milk. There should also be proper equipment for cleansing all cans and other containers. We found, during the inspections of these milk shops, that some of them were located in close proximity to stables and other sources of contami-The location and management of these places should be regulated by local ordinances. There were 62 milk depots investigated during the year, and the local boards of the municipalities within whose limits they were found were advised as to their condition and management.

The quantity of certified milk produced in this State is being increased, and while there are no new dairies of this character within the State, the output of those already reported is greater than last year. During the summer season there is so great a call for this grade of milk at the different seaside and other resorts that this year it was impossible for our local certified dairies to meet the demands, and several dealers drew their supply during

the summer from two dairies in New York State—the last two on the list given below. There are a number of high-grade dairies in New Jersey which produce milk showing a very low bacterial count and which, with but little change in their equipment, could meet the requirements of a medical milk commission. One of these has already asked for an inspection by officers of this division with that idea in view.

Following is a list of the dairies producing certified milk for sale in New Jersey:

Fairfield Dairy	.Caldwell Essex county.
Haddon Farms	.HaddonfieldCamden county.
Noe Farm, Incorporated	.Madison Morris county.
Purity Milk Farm	.Pennington Mercer county.
Raritan Valley Farms	.Raritan Somerset county.
Walker-Gordon Milk Farms	. Plainsboro Middlesex county.
Swain Brothers	.Kearny Hudson county.
Riverside Farm	.Owego New York.
Quarry Farm	.Elmira New York.
Redgate Farm	.Earlville New York.
Brookside Farm	. Newburgh New York.

Following is a review of the work done in dairy inspection in connection with local boards of health:

ASBURY PARK.

The milk supply of Asbury Park is derived from many sources, including nearby dairies and creameries in New Jersey and New York. It is very difficult, with our available force of inspectors, to supervise the entire milk supply of this city in the summer season, when the supply is so constantly changing and increasing. We have kept a very good supervision over the permanent shippers and the dairies which are located in the vicinity of Asbury Park. About 1,300 quarts are received daily from one creamery located at Colts Neck, and the dairies supplying this creamery have been inspected, with the result that there has been a gradual improvement in the sanitary condition of each dairy since the beginning of the work in 1909. At the end of that year the general average of these dairies was 50.75 per cent., and at the last inspection in 1911 the general average of the twenty dairies supplying this milk was 60 per cent. The methods of handling the milk and the

sanitary conditions in the creamery itself have also been gradually improved since the beginning of our inspections.

Eleven of the local dairies fell below the required standard of the Asbury Park Board of Health, and the owners were requested to improve conditions so as to meet the board's approval. A reinspection showed that improvements had been made in several of them sufficient to increase the total award 19.75 points. We were informed by the local health officer that the milk of two dairies fell below the sanitary standard of the city and had been excluded.

BAY HEAD.

In July, 1911, a complaint was received by the Board from residents of this borough that the milk supply was of an inferior quality. Inspections were made of the six dairies furnishing the supply, and the following will show the result of the inspection of each dairy:

Name.	Score.
Geo. A. Gifford	36.75≴
Luther Pullen	49.75%
Joseph La Fetra	50.00%
Morris Milk Co	58.00%
Julius Foster	60.00%
Issac Van Hise	61.25%
•	<u></u>
Average score	02.50%

We endeavored to interest the local authorities of Bay Head in their milk supply, but received no assistance from them in cleaning up the dairies which fell below what is considered a safe figure. Part of the milk of four of these dairies is distributed in Point Pleasant, and copies of the scores were sent to the local health officer of that borough.

BORDENTOWN.

Since 1909 there have been four general inspections of all the dairies supplying Bordentown with milk. These have been supplemented by reinspections of all those dairies which fell below 60 per cent. on first inspection. The average score of all the

dairies in 1909 was 58 per cent. The average score of the dairies in 1911 was 62 per cent., showing a gradual improvement in the sanitary conditions under which the milk supply of this city is handled. The local board of health has spared no pains to assist our officer in the work of improving the supply, and the result attained shows a gradual but steady improvement.

BOUND BROOK.

We have been making inspections since 1909 of the dairies supplying Bound Brook with milk. The average score on the first inspection was 59 per cent., and the last 65 per cent. Much pride in the quality of their output is taken by the owners of a number of dairies supplying this municipality, and some of the product is of a very high standard.

BURLINGTON.

The number of dairies that supply the city of Burlington with milk has increased from 23 in 1909 to 31 in 1911. The average score of the 23 dairies on the first inspection was 55.50 per cent., and the last average score in 1911 was 60.75 per cent. The local board of health of Burlington has been very active in its efforts to improve the milk supply of the municipality, and that it has been rewarded in these efforts can be plainly seen by the records of this department, showing general improvement of all the dairies supplying that city.

COLLINGSWOOD.

The health department of Collingswood borough has taken a lively interest in the quality of the borough's milk supply since 1909. During the year the result of the inspection showed the average score to be 55.75 per cent., and all those dairies which fell below the requirement of 60 per cent. were notified that a reinspection must show improvement in order to meet the demands of the local board of health. The medical inspector has requested a number of inspections since that time, and the last annual in-

spection shows an average score of 59 per cent. Part of the supply of this borough is derived from the creamery of the Harry R. Read Company of Camden, and in order to learn the condition of the milk supplied to that creamery it was necessary for us to inspect the dairies furnishing it. It was found that a number of dairies supplying milk to the creamery scored below 60 per cent. The board of health of Collingswood refused to accept the mixed milk of this creamery, and after considerable argument a plan was agreed to by the creamery manager and the board of health by which only the milk from dairies scoring above 60 per cent. is sent to Collingswood.

DOVER.

There is no locality in the State which has shown a greater interest in its local milk supply than the town of Dover, and this department has given the local authorities considerable aid in inspection work since September, 1910. The milk of this town is received from 21 local dairies, and from part of the supply of the creameries located at Andover, Flanders, Chester and Broadway. The average rating awarded the local dairies on the first inspection in 1910 was 56.75 per cent., and that of the dairies supplying the McLaughlin creamery at Flanders, 63 per cent.

The inspections for 1911 show the average rating for the local dairies to be 60.75 per cent., and that of the dairies supplying creameries from which part of the supply is derived, as follows: Andover creamery dairies, 71.50 per cent.; McLaughlin creamery dairies, Flanders, 58 per cent.; Willswood creamery dairies, Flanders, 63.75 per cent.; Chester creamery dairies, 58 per cent.; Broadway creamery dairies, 52.50 per cent. On the receipt of the score-cards of the dairies supplying these creameries with milk, the local board of health refused to receive milk from creameries whose dairies scored less than 60 per cent., and the milk from one creamery was excluded. A final arrangement, however, was made with the owner of the creamery, by which he agreed to furnish milk to Dover from only such dairies as scored 60 per cent. or above. This action of the local board stimulated the dairymen supplying this creamery whose ratings were below 60 per cent., and they immediately proceeded to improve the sani-

tary conditions of their premises and to better their methods of handling milk, afterwards asking for a reinspection of their premises.

GLEN ROCK.

A communication from the clerk of the board of health of Glen Rock, Bergen county, under date of April 19th, 1911, requested an inspection of all the dairies supplying this locality with milk. An inspection was made during the same month which showed that four of the local dairies had an average score of 60.50 per cent., and that the supply which came from the Andover dairies showed an average score of 71.50 per cent. The general average score of the supply was 71.25 per cent., although several dairies went below 60 per cent. Copies of all the scores were sent to the local authorities of Glen Rock, with a suggestion that they require each dairy to score at least 60 per cent. as a prerequisite to distributing milk within their jurisdiction.

HADDONFIELD.

On request for an inspection of the dairies supplying Haddonfield, 18 dairies were inspected. The general average score of the 18 dairies was 60.25 per cent.

HOPEWELL.

Inspections have been made for the borough of Hopewell since 1909. Thus far there have been three general inspections of the dairies and the usual reinspections. The average score on the first inspection in 1909 was 50 per cent., and the average score on the last inspection in 1911, 61.75 per cent. There has been a general improvement in the milk supply of this borough, due to the work of our division.

JAMESBURG.

A complaint received from a private citizen regarding the quality of the milk sold in Jamesburg was received by the Board and referred to this division. Communication was had with the local board of health, which resulted in a general inspection being made of all the dairies supplying that municipality with milk. The highest score recorded of any dairy was 64.25 per cent., and the lowest score, 43.50 per cent. The general average score was 54.50 per cent. Those dairies scoring below 60 per cent. were notified to improve their conditions. A reinspection has since been asked for by the local board but has not yet been made.

KEARNY.

At the request of the local board of health of Kearny, five dairies were inspected and showed an average score of 58.50 per cent. The local board of health was also furnished, for purposes of investigation, a list of the dairies supplying Andover and Flemington creameries, a part of whose supply is received in Kearny.

MADISON.

The milk supply of the borough of Madison was investigated in October. The 14 dairies from which the supply is drawn were inspected and found to be above the general average in quality. The highest rating of these 14 dairies was 96 per cent., and the lowest 43.25 per cent., only two being below 60 per cent.

METUCHEN.

The milk supply of Metuchen has been investigated annually since 1908, and a general improvement has been shown in the quality of the milk. The first inspection showed an average score of 63 per cent., and the last one, 72.25 per cent. Much credit

is due to the health officer of this municipality for the interest which he takes in the cleanliness of the milk furnished the citizens of Metuchen.

MILLBURN.

The general average of the scores of the dairies supplying Millburn township with milk was 72.25 per cent. this year as against 64.50 per cent. on the first inspection. There has been a yearly improvement in the sanitary conditions under which milk is produced and handled in this locality since the first inspection of these dairies.

MOORESTOWN.

The first inspection of the dairies supplying Moorestown was made during the present year. There is a superior quality of milk produced in this vicinity, and the rating of the dairies showed that sanitary precautions are well observed. The scores of the different dairies supplying this locality with milk are as follows: 81.25 per cent., 80.25 per cent., 80.25 per cent., 80 per cent., 69 per cent., 64.25 per cent., 55 per cent., 54.50 per cent. and 43.75 per cent. Average score, 67.50 per cent.

NEW BRUNSWICK.

A great deal of work in the way of milk inspection has been done for the city of New Brunswick during the last few years. A very active board of health in this city is constantly investigating dairy conditions. This division has devoted considerable time to the milk supply of this city, and has been very willing to do this work because of the active co-operation of the local board. During the year a pamphlet of 28 pages was issued by the New Brunswick board, and was freely distributed to all citizens of the town as well as to the dairymen. This pamphlet gave a complete description of the conditions under which milk is produced in every dairy supplying that city, and displayed cuts showing some very unsanitary conditions as well as those of a sanitary character. This has resulted in educational work that must im-

prove the general milk supply of the city. The board has also arranged for meetings among the dairymen in order that they can intelligently discuss the milk question. The average score of the first inspection of the dairies supplying this city with milk was 52.50 per cent., and of the last inspection was 63.25 per cent., exclusive of the milk supplied by a new creamery. The average score of the dairies supplying the new creamery was 51.50 per cent. This, of course, brought the general average down to 61 per cent. This showing for a city whose supply is drawn from 131 dairies is very good, especially when it is considered that new dairies are constantly being added to the list, which must be inspected a number of times before they can be approved.

ORANGE.

The city of Orange began to take a lively interest in its milk supply in 1908, from which time we have made periodical inspections of the dairies which supply the creameries shipping milk to this city. There are about 50 local dairies whose milk is consumed in the city of Orange, and the work of inspecting these dairies has heretofore been done by the local health officer. We have no record as yet of the sanitary conditions of these dairies, but have received a request from the local board to include them in our inspection work in the future, and the work is now being performed, the result of which will be shown in our next report. The following table shows the dairies inspected by this division, and the general average awarded the dairies supplying each creamery:

8 individual shippers	Average	score,	59.75≴
31 Lafayette creamery dairies	44	46	64.75%
33 Hope creamery dairies		66	62.75%
18 Chester creamery dairies	"	46	58.00%
30 Roseland creamery dairies	"	44	60.25%
28 Andover creamery dairies	. 44	66	68.00%
35 Gracie, N. Y., creamery dairies	••	"	60.75%
Brisbin, N. Y., creamery dairies	. "	44	74.50%

Total, 236 dairies.

General average score, 65.25%

The health officer of Orange is very active in the work of milk inspection, and has notified every shipper of milk to that municipality that he will be expected to handle his milk in a way satisfactory to the city board and the State Board, if he desires to continue shipping milk to that city. The following circular-letter has been prepared by Mr. Mac Nutt, the local health officer, and sent to every shipper whose dairy falls below the required sanitary standard:

DEAR SIR—Your attention is drawn to the ordinance recently passed by this board forbidding the sale of milk in this city from dairy premises scoring lower than 60 on the State score-card.

Inspections of your dairy by an officer of the State Board of Health has resulted in a score of ... being allowed.

You are therefore notified to at once make improvements such as will raise your score above the legal standard and place the premises in accordance with the requirements of this board. To this end you are advised to follow the recommendations which have been forwarded to you by the Division of Creameries and Dairies of the State Board of Health.

After a reasonable length of time a reinspection will be made and your premises re-scored. Any further information regarding the score-card or the methods of milk production approved by this board will be cheerfully furnished on application.

Respectfully yours,

Health Officer.

PATERSON.

The board of health of this city did some excellent work in cooperating with this Board during 1910 and 1911, and is now in a position to continue the work with its own inspector, having been furnished a record of every dairy supplying the city with milk. This year we have made and reported to the local board the result of inspections of 82 dairies.

PERTH AMBOY.

Considerable correspondence has taken place between this division and the local board of health of Perth Amboy relative to the quality of the milk shipped to that city. The local board of health passed an ordinance forbidding the sale of milk from dairy premises scoring less than 60 per cent. on the State score-card. One hundred and eighty-nine dairies were inspected by us as a

result of the city's request for an investigation. The supply of this city is obtained from many sources, and considerable time was consumed in investigating them. Copies of the score-cards of each dairy were sent to Perth Amboy, and those dairies which were still below the standard, after several reinspections, were excluded. The milk supply from two creameries was excluded for a time because many of the dairies which entered into the supply of these creameries fell below the required standard, and since the milk of all the dairies was mixed, the city of Perth Amboy refused to accept it. An arrangement was subsequently made, however, by which only such milk was shipped as came from dairies which showed a rating of 60 per cent. or above. The following table will show the creameries from which the supply is obtained, and the general average score:

20 local dairies	verage	score,	60.75%
3 individual shippers	66	44	64.25%
7 Stanton creamery dairies	44	44	62.00%
52 Three Bridges creamery dairies		44	59.75%
35 Clinton creamery dairies	46	44	61.50%
39 Jutland creamery dairies	44	"	56.50%
33 Flemington creamery dairies	44	"	59.00%
189 General:	average	score,	59.50%

POINT PLEASANT.

For a number of years complaint has been made of the quality of milk received at Point Pleasant, and this year the secretary of this Board received a letter from the secretary of the board of health of Point Pleasant, requesting an inspection of all the dairies supplying the borough with milk. In response thereto 20 dairies were inspected, which showed an average score of only 50.75 per The highest score awarded any dairy was 60.25 per cent., and the lowest, 43.75 per cent. This did not include the dairies of the Walker-Gordon Company nor of the Slawson-Decker Company, as the milk from these dairies arrives at Point Pleasant in bottles and is generally well iced and cared for. The greatest trouble with this supply is the temperature at which it is held. Most of it is carried in wagons without protection, and when it arrives at Point Pleasant it is in the most susceptible condition for the development of bacteria. The local board of health was

notified of the conditions found and was urged to keep a stricter surveilance over the dealers and to insist upon better methods in handling and distributing milk.

PRINCETON.

Thirty-one dairies have supplied milk to the borough of Princeton during the past year. They were inspected by our division and the average score was 62.75 per cent. The local board of health of Princeton is preparing to do valuable work in milk inspection during the coming year, and it is expected that a much better condition will be shown at the end of 1912.

RAHWAY.

The second annual inspection of the dairies supplying Rahway shows an average score of 65 per cent. as against 64.75 per cent. last year. With two exceptions, each of these ten dairies scored above 60 per cent. The two exceptions were 56.50 per cent. and 38 per cent. The dairyman whose premises scored but 38 per cent. was given a limited time in which to bring his dairy up to the requirements of the local board of health, and if he fails to do so his milk will be excluded from sale.

RAMSEY.

The local board of health of Ramsey made its first request for an inspection of dairies this year. Nine dairies were scored and the average score was only 52.25 per cent. Those dairies falling below the local board's requirement of 60 per cent. were written to and informed that it would be necessary for them to improve conditions on their premises in order to continue the sale of milk within the jurisdiction of the Ramsey board of health.

RARITAN.

Five of the local dairies supplying Raritan with milk were scored and a rating of 54.25 per cent. was given on an average score.

RIVERTON.

The borough of Riverton has taken considerable interest in its milk supply during the past year, and has passed an ordinance requiring that all dairies shall receive a rating of at least 60 per cent. as a prerequisite to selling milk within the borough. The 13 dairies had an average score of 58.50 per cent., and the local board of health informs us that it will insist upon improvements in those dairies falling below 60 per cent., sufficient to meet this requirement.

ROSELLE.

The borough of Roselle is very particular about the quality of milk furnished its citizens, and an active board of health has been thoroughly supervising the milk supply since 1909. This board will not permit the sale of any milk within the limits of the municipality until the premises on which the milk is produced and handled have been inspected by officers of this division and approved by them. During the past year 36 dairies supplying this borough with milk were inspected, and the general average score was 66 per cent.

RUTHERFORD.

The board of health of Rutherford requested an inspection of dairies, including part of the supply of three creameries, two of which are located in New York State and one is in Pennsylvania. In all, 85 dairies were inspected, the average score being 59.25 per cent. The average score of the three local dairies alone was 67 per cent.

SALEM.

There were two inspections made during the year of dairies supplying Salem with milk. The result of the first inspection was a general average score of 57.25 per cent., and of the second inspection, 60.25 per cent. The Salem board of health requires that all dairies supplying the city with milk shall receive a score of at least 60 per cent.

SOUTH ORANGE.

South Orange village requires that all dairies supplying the municipality shall first be inspected by officers of this division, and we are in close touch with the entire supply. Part of the milk reaching South Orange is produced in New York State, and at the request of the local board, an officer of this division was sent to the two New York State creameries and inspected the 88 dairies entering into their supply. The following table will show the general average score of the sources from which the milk is derived:

12	local de	airies and	individual shippers	Average	score,	68.004
30	dairies	supplying	Roseland creamery	**	**	60.25%
28	44	66	Andover creamery	**	**	68.00%
51	**	**	Hope creamery	44	••	52.50%
32	44	4.	Augusta creamery	44	**	71.50%
53	**	4.	Brisbin, N. Y., creamery	44	44	74.50%
35		44	Gracie, N. Y., creamery	44	44	$60.75 \sharp$
241			General	average	score.	63.25 %

SOUTH ORANGE TOWNSHIP.

There have been three general inspections of the South Orange township milk supply since September, 1910, and a decided improvement has been made since the first inspection. The general average on the first inspection was 50.50 per cent., and on the last inspection, 62.25 per cent.

SUMMIT.

This Board has been assisting the city of Summit in the investigation of its milk supply since 1909, and annual inspections have been made. The first inspection showed a general average score of 62 per cent., and the inspection of 1911 showed 64.25 per cent. Considerable interest is manifested by the health board of this city in the milk supply, and it has actively co-operated with this Board and rendered valuable service in these investigations. The supply of Summit is derived from 19 local dairies, and from part of the product of 46 dairies delivered at the Andover and Chester creameries.

VERONA.

The ten dairies supplying Verona with milk were inspected in May, 1911, and the average score was found to be 70 per cent. The milk produced at these dairies is of superior quality, only three of them falling below 60 per cent. The highest score recorded is 86 per cent., and the lowest 55.50 per cent.

WESTWOOD.

Two annual inspections have been made of the milk supply of Westwood. The general average of the six dairies contributing to this supply was found to be the same in each year, viz., 62.75 per cent.

WOODBRIDGE.

The board of health of Woodbridge township, Middlesex county, has taken a lively interest in the milk supply, and for two years regular inspections have been made. All dairies falling below 60 per cent. are given a limited time in which to bring up their rating, and the result is that the dairies have shown a marked improvement, advancing from 52.50 per cent. to 60.25 per cent. in their general average this year.

MISCELLANEOUS.

Jersey City. We are seldom called upon to investigate the milk supply of Jersey City, and only when an individual consumer suspects his milk supply to be of a very inferior quality do we receive some notification of it. Seven dairies were complained of and inspected, and the local board of health was notified of the conditions found.

Newark. The records showing the condition of 46 dairies were sent to the health board of Newark with comments on those which we considered inferior. Toward the close of the year numerous complaints were received of the unsanitary condition of a number of dairies contributing to this supply, and inspections are now being made of these places.

Lawrenceville School. The dairies supplying the Lawrenceville School have been regularly inspected since 1908. The general average of all these dairies for this year was 66.75 per cent.

Glen Gardner Tuberculosis Sanitorium. The milk supply of this institution has been investigated a number of times, and after each inspection the trustees of the institution have been notified that the quality of the milk was not satisfactory to this Board. The officers of the institution have endeavored to secure a better supply, but their efforts in this direction have failed. rangement was made with the manager of the Hampton creamery to set apart for use by this institution the milk from the best dairies contributing to his supply. In accordance with this arrangement, the milk of eight dairies was sent daily to the Sanitorium. An inspection of these eight dairies was made by an officer of this division in October, 1911, and the general average score was 58.75 per cent. These figures indicate that the milk is not produced and handled as it should be for use in an institution for the cure of tuberculosis, which, above all other curative institutions, should have a clean, fresh and proper supply of milk, as this is the chief diet of the patients under treatment there.

TABLE SHOWING THE TOTAL NUMBER OF DAIRIES INSPECTED IN EACH COUNTY, THE NUMBER SCORING ABOVE AND BELOW 60%.

			•
COUNTY.	Total number of dairy inspections.	Number scoring above 60% of the perfect mark.	Number scoring below (6)\$ of the perfect mark.
Bergen Burlington Camden Essex Gloucester Hudson Hunterdon Mercer Middlesex Monmouth Morris Ocean Passaic Salem Somerset Sussex Union Warren Broome, New York Chenango, New York Cortland, New York Sullivan, New York Northampton, Penn, Susquehanna, Penn, Wayne, Penn,	44 103 33 63 7 12 219 39 134 105 194 13 103 41 221 169 36 157 20 53 32 6 5 9 17 39	14 55 16 41 2 92 22 92 22 67 38 99 3 53 16 137 142 27 45 9 53 19 3 19 3	30 48 17 22 5 10 127 17 67 67 67 95 10 50 25 84 27 9 112 11
Total	1,874	982	892

166 REPORT OF STATE BOARD OF HEALTH.

TABLE SHOWING THE AVERAGE SCORE OF DAIRIES SUPPLYING THE FOLLOWING CREAMERIES.

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	190	9.	1910	0.	1911	ι.
LOCATION OF CREAMERY.	Number of dairies.	Average score.	Number of dairies.	Average score.	Number of dairies.	Average score.
Allentown Andover Andover Augusta Bevans	13 31 (Nov.) 30 (July)	54.75¢ 62.50 68.50 63.50	11 24 36	54.25 ¢ 68.50 73.00	30 (Nov.) 28 (Sep.)	71.50\$ 68.00 71.50
Bridgeville Brisbin, N. Y Broadway Camden (Garden State Dairy) Camden (Harry R. Read Co.)	40	56.00 59.75	14	57.25	17 53 33	58.25 74.50 52.50
Chester	19	54.00 50.75	20 14(May) 13(June)	60.50 53.50 62.75	20 (Nov.) 18 (July) 35 20	57.00 58.00 61.50 60.00
Columbus Flanders (W. J. McLaughlin) Flanders (Wills-	39	59.00	16	63.00	14	58.00
wood Dairy) Flemington Franklin Park	29	53.75	24	58.25	13 33 16	63.75 59.00 51.50
Gracie, N. Y Hampton Hickory Grove, Pa. Hixon Hope	46	58.25			35 22 39 33 (Feb.) 51 (Oct.)	60.75 59.75 51.00 62.75 52.50
Jutland Kirkwood, N. Y Lafayette	26	55.75	28	57.25 75.50	39 15 18(Nov.) 31 (Oct.)	56.50 58.00 73.50 64.75
Monroe Pemberton Roseland Roseland Skinners Falls,	14 34 '	67.00 55.00 	14	66.50	27 (Feb.) 30 (Sep.)	61.00 58.50 60.25
N. Y			52	Digitiz 55.75	45 7 52 God	59.00 62.00 59.75

MISCELLANEOUS COMPLAINTS.

COMPLAINANT.	DATE OF INVESTIGATION.	NATURE OF COMPLAINT.	ACTION TAKEN.
Trenton Board of Health Nov.	2, 1910	. Milk alleged to be abnormal when delivered.	Milk alleged to be abnormal Unsanitary condition found on premises and milk handled in an improper way. Time limit given for improvement. Owner finally relinquished business.
Soard of	Nov. 7, 1910	. Milk handled by inmate diseased suspects on township poor farm.	7, 1910 Milk handled by inmate diseased Inspection of premises made; matter referred to suspects on township poor Division of Medical and Sanitary Inspection. farm.
Seventh Ward Improvement Association, Jersey City	Nov. 16, 1910 Unsanitary	condition of	five inspections made and Jersey City board of health requested to revoke licenses granted to dairy-
Resident of Kingwood Twp., Hunterdon Co	Nov. 18, 1910	Unsanitary condition of dairy.	Nov. 18, 1910 Unsanitary condition of dairy. Owner ordered to improve conditions.
Board of Managers, Union Industrial Home, Trenton	Jan. 18, 1911	. Quality of milk complained of.	Jan. 18, 1911 Quality of milk complained of. Investigation made of the supply and instructions given to dairymen and to the managers of the institution to take better care of the milk, regarding keeping it at a low temperature and obtaining a fresher supply.
Resident of Salem	Mar. 17, 1911	. Diseased hogs on dairy premises.	Diseased hogs on dairy prem- Instructions given for the separation of hogs and ises.
Mayor of Spring Lake	April 28, 1911	April 28, 1911 Unsanitary dairy.	Inspection made and matter referred to local board.

MISCELLANEOUS COMPLAINTS—Continued.

COMPLAINANT.	DATE OF INVESTIGATION.	NATURE OF COMPLAINT.	ACTION TAKEN.
Madison Board of Health	of Health May 1, 1911 Unsanitary dairy.		Inspection made and nuisance abated.
Resident of Midvale, Passaic	May 31, 1911	31, 1911 Unsanitary dairy.	Inspections made and conditions satisfactorily improved.
Resident of Union, Union Co June	2, 1911	Drainage from cow stable.	Complaint unfounded.
Editor of newspaperTuly		Milk in Sussex county cream- eries alleged to be contami- nated by smoke of locomo- tives.	5, 1911 Milk in Sussex county cream-Matter investigated and nuisance abated. eries alleged to be contaminated by smoke of locomotives.
Resident of Midvale	Aug. 9, 1911	9, 1911Two unsanitary dairies.	Inspection made and owner notified to improve conditions.
('liffside Board of Health	of Health Aug. 10, 1911 Unsanitary dairy.		Two inspections made and dairy abandoned.
Brooklyn milk denlerAug.	Aug. 28, 1911 Sept. 5, 1911	Alleged unsanitary condition of dairies supplying Hixon and Bridgeville creameries.	Alleged unsanitary condition of All dairies 'nspected and proper instructions dairies supplying Hixon and given. Bridgeville creameries.
Citizen of Long Island	Sept. 6, 1911	Unsanitary dairy at Mountain- side.	6, 1911 Unsanitary dafry at Mountain-Investigation made and sale of milk stopped. side.
Tenafly Board of Health	Sept. 19, 1911	Alleged sickness from use of milk.	Health Sept. 19, 1911 Alleged sickness from use of Complaint investigated and instructions given. milk.

INSPECTION OF CREAMERIES.

At the end of the fiscal year of 1910-1911 there are in this State 174 creameries which may be classified as receiving stations; that is, establishments where milk is received from farmers and either bottled or otherwise prepared for market, or where the entire product is made into butter or cheese. Of the latter there are only fourteen. To explain what may seem a discrepancy in last year's report, it may be said that the 212 creameries reported in 1910 represent the milk receiving stations, butter creameries and the ice cream factories which the act of March 28th, 1911, required the State Board of Health to license when conducted in a sanitary way. These ice cream factories are now classified by themselves, and the record of our work in this particular will be shown elsewhere.

The Legislature, at its last session, amended the "creamery act" so as to remove the prohibition contained in the original act against the use for creamery purposes of any building occupied as a dwelling at the time that the act became effective, provided the sanitary arrangement of such buildings was approved by the Board of Health.

It had been found that a number of city creameries were located in buildings which were used in part as dwellings. Most of these creameries were operated under satisfactory sanitary conditions, and it was believed that the public health would not be endangered by permitting the continued use of such buildings for this purpose.

The other amendments to the act were made for the sole purpose of making it apparent that ice cream factories were included within the provisions of the original act. As the act formerly stood, its provisions applied to any place where milk was received or stored for distribution or sale, or for the manufacture of the same into butter, cheese, condensed milk or other food for human beings. While it is apparent that the wording of the act included ice cream, it was considered wise to specifically name this latter article of food in the law in order that its language might not be misunderstood.

During the year one special matter which claimed our consideration was the use of rusty cans by creamerymen for the transportation of milk and cream. Our attention was drawn particularly to

this matter by the fact that we were notified of a number of cases of ptomaine poisoning which had occurred in people who had eaten ice cream manufactured by one particular dealer. After inspection of the premises, sufficient evidence was obtained to warrant a revocation of the owner's license. Manufacturing was suspended for several days until a general cleaning up of the establishment had been made, and better methods installed for the handling of the materials and the finished product there manufactured. When all this was done the owner's license was restored, but a few days after he had received his license, another case of sickness, similar to the ones before mentioned, occurred in a person who had eaten ice cream in his establishment. notification we at once made a searching investigation and found that cream had been received from a dealer in a transportation can which was corroded on the inside to such an extent that it was immediately condemned by the inspector, as it was believed that the milk and cream contained in rusty cans were as much responsible for the trouble as any other suspicious cause. This matter was referred to the Board, and they made the following ruling to be added to the code of rules for the government of creameries:

Whenever an inspector shall find any transportation can in the possession of a milk dealer or ice cream manufacturer, which, in his judgment, is corroded on the inside to such an extent as to be liable to impair the purity or wholesomeness of milk or cream, it shall be his duty to fasten upon the can a tag containing the words "Condemned and not to be used for milk or its products, by order of the Board of Health of the State of New Jersey."

It is the intention of the Board during the coming year to have the inspectors particularly scrutinize all cans and utensils used in the handling of milk or its products, and those which are found to be in such a corroded condition as to be liable to impair the contents will be immediately condemned, and the owners notified that the continued use of such containers will result in the revocation of the licenses granted them.

At the end of the year 1910 there were 22 creameries operating in the State, for which no licenses had been recommended. The reasons for permitting these creameries to operate without licenses were printed in last year's report. During this year nine of those creameries, having met with the requirements, have been licensed, as the following list shows:

ATLANTIC CITY. (Abbott's Alderney Dairy Co.) A reinspection showed that the family which had occupied part of the building had vacated the same, and that the building is now used for creamery purposes only. Licensed November 15th, 1910.

Belle Mead. (Farmers' Exchange Co.) The Board having refused to license this creamery on account of its dilapidated condition and its inadequate capacity for caring for the large quantity of milk handled there, the company has since built a large brick structure and equipped it with modern facilities for condensing and otherwise handling market milk. They were licensed on October 10th, 1911.

Davis Station. (Wills-Jones Dairy Co.) This is a new creamery, having been recently built and was licensed on May 23d, 1911.

ELMER. (Isaac B. Reeve.) A new cement floor having been placed in this creamery, covers provided for the milk vats, and a general improvement made in the management of the creamery, the Board issued a license to the owner on December 13th, 1910.

Franklin Park. (Samuel Adler.) A license was refused this creamery last year on account of the poor equipment and lax methods, but after the building was reconstructed, with a cement floor, better equipment and improved methods, the Board issued a license to the owner on November 15th, 1910. This creamery was originally established for the manufacture of cheese, but since the improvements have been made, the owner has been selling large quantities of cream to dealers. A number of reinspections were made during the year, and for a time little criticism was made, but later laxity was shown in handling the product and the owner has again been notified that unless greater care is exercised in the handling of the milk entrusted to his care, the Board will be asked to revoke the license already granted.

GREAT NOTCH. (J. G. Sprattler.) A license was refused the owner of this creamery, because the building did not conform to the requirements of the law. He built a new structure at Richfield, which was approved by the Board, and a license was issued to him on May 15th, 1911.

NEWARK. (H. Allen Osborne.) The owner of this creamery conducted it in a very slovenly manner for the first few months of his ownership, and was cited to appear before the Board, since

which time much improvement has taken place in the establishment. He was accordingly licensed January 3d, 1911.

NEWARK. (Wm. Provost.) A new modern creamery was built by the owner of this establishment, which was incomplete at the close of the last fiscal year. He has now a model creamery, and he was licensed February 28th, 1911.

TRENTON. (Alpha Buttermilk Dairy.) A license was refused in this case because part of the building was used as a dwelling. This is a city milk depot where a specialty is made of manufacturing butter and buttermilk. An amendment to the law approved May 28th, 1911, permitted the occupation of this class of creameries in buildings occupied by families, provided the conditions met with the approval of the State Board of Health. A license was issued on April 4th, 1911.

The following list will show the conditions in the 20 creameries which at the end of this year are still unlicensed. Five of these creameries are entirely new establishments, not having yet met with the requirements of the Board, and two have new owners and are not yet ready for a license.

ATLANTIC CITY. (Edward F. Price.) This is a milk depot where milk is handled for the Atlantic City trade. During our several inspections the methods could not be approved by this Board, and while there has been an improvement, we have not yet felt warranted in recommending a license.

ATLANTIC CITY. (Caleb E. Shreve.) The methods in this establishment are fair, and a separate building has been established for the milk business, apart from the family dwelling. The stable, however, is very close to the milk room, and the owner has been notified that this stable must be removed.

ATLANTIC CITY. (Samuel Wells.) The location of this establishment does not meet with our approval, and the owner has been so notified. He has made a strong effort to improve the conditions, but the location and the surroundings are unfit for conducting the milk business. We therefore have not recommended a license for this establishment.

ATLANTIC CITY. (Thomas K. Wilson.) This is a large milk depot where milk is pasteurized, separated and bottled for the Atlantic City trade. The owner's stable was located alongside the creamery, and under the same roof, but he has since built a large modern stable at a great distance from the creamery, and will

make other improvements during the fall. He has been informed that no license can be issued to him until the improvements are completed.

Baptistown. (Geo. H. Scott.) This creamery has not been licensed, although much money has been spent by the owner in improvements, but as yet it does not meet with the Board's approval.

Bevans. (Seiler Brothers.) A number of inspections of this creamery have been made, but the conditions have not been satisfactory to this Board. It may be stated, however, that the owners, when requested to make special improvements, have complied with the requests, and that at times the management has been satisfactory. At other times, however, lax methods have prevailed, and we have not felt warranted in recommending a license for this creamery until we are satisfied that more satisfactory methods will be maintained.

CALIFON. (Samuel Tiger.) This creamery has remained unlicensed because it is simply a depository for a few cans of milk brought in by farmers, there being no manipulation of the same, nor any washing of cans or utensils on the premises.

CHESTER. (Seiler Brothers.) This creamery is fairly well conducted, but some difficulty has been encountered with the drainage. The owners of the creamery have written us recently that under the new management they expect to rectify the trouble complained of.

HOPE. (H. R. Hurley.) Several communications have been sent to the owner of this creamery, informing him that his methods are not satisfactory to this Board, and some improvement has been made, but not sufficient to warrant us in recommending a license.

IRVINGTON. (Samuel Lemmerman.) Many inspections have been made of these premises, and building has been going on during the year. The conditions so far have not warranted the recommendation of a license.

JERSEY CITY. (Greenfield Dairy Co.) The license issued to this firm for the operation of a creamery at 96 Harrison street, Jersey City, was revoked because they changed their location, and established themselves in a building at 135 Fairmount avenue, Jersey City. The new plant, with one or two exceptions, complies

with the Board's requirements, but another inspection will be necessary before we will be warranted in recommending a license.

MIDDLEBUSH. (Cornelius I. Van Cleef.) This dealer has been selling milk at wholesale in the city of New Brunswick for some time, and objection was made by other creamerymen that he was violating the creamery act, in that he was receiving his milk from many producers who delivered it to him on the roadside, after which he divided it among his customers in New Brunswick. His methods were investigated by our officers, and he was finally informed that unless he established some place for the handling of this milk and the proper washing of his cans and utensils, he would be proceeded against for a violation of chapter 139 of the laws of 1906. The latest report of the inspector on these premises shows that a building is now in course of erection to be used by this dealer as a creamery.

Montague. (Seiler Brothers.) We have still refused to recommend a license for this creamery on account of bad methods and non-compliance with the law. Many promises have been made by the owner to improve conditions, but they have failed to be satisfactory to this division.

NEWARK. (John Rohdick.) This dealer purchased the business of August Beckmeyer, who operated a licensed creamery at 65 Clinton place, Newark, which license was revoked after the sale. The new creamery of Rohdick has not met with the requirements of the law either in point of construction or equipment.

NEW EGYPT. (Leo G. Balzereit.) This is an entirely new creamery, not yet finished, to be operated by a dealer from Philadelphia.

NORTH HALEDON. (David H. Peth.) This is a city milk depot, but the business carried on constitutes a creamery under the act. The operator handles about 17 cans of milk daily, which he sells to small dealers and at retail. It was found that his facilities were inadequate for the proper handling of the product, and he was informed that he must apply for a creamery license. The equipment, however, is not satisfactory, and no license can be granted until further investigation shows that proper equipment has been installed for the handling of the milk.

PLUCKEMIN. (James Woods.) The owner of this creamery was required to abandon the premises for the handling of milk be-

cause he had failed to comply with the Board's requirements, and on November 15th, 1910, the business was closed.

RARITAN. (Du Bois Brothers.) This creamery was formerly operated by Wm. Arkenburg, but it was abandoned and the license revoked. Subsequently, Du Bois Brothers, of Jersey City, acquired the property, and have applied for a license for its operation. Our inspection, however, showed that the creamery is not now in a condition to be licensed, and the owners have been so notified.

TROY IIII.I.S. (Harry Backus.) This is a small creamery, practically a depository for milk brought by farmers and left in a spring house, being later taken to a creamery at Caldwell, which creamery is licensed. Milk is in no way handled, and no utensils nor empty cans are washed there, such work being done at the Caldwell creamery. We have not felt that this place should be classified as a creamery.

WAYNE TOWNSHIP. (Morris Felley.) This is a small creamery handling about 800 quarts of milk daily for sale to retail dealers in Paterson. Several inspections have been made of the premises. Some equipment has been installed for the washing of cans and utensils, and cement floors have been placed in the building, but the methods have not been entirely satisfactory, and other inspections will be necessary before we shall feel warranted in recommending a license.

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LOCATION.	OPERATOR.	IMPROVEMENTS NOTED.
Atlantic City Atlantic City Atlantic City Atlantic City	Mantle City Abbott's Alderney Dairy Co- Matherite City Caleb B. Sheve Mantle City Samuel Wells.	Creamery rooms formerly occupied by family vacated. New coment floor; part of celling covered with smooth boards. New addition to creamerly with bottling room and wash room. Accumulation of rubbish in adjoining alley removed; cement floor repaired; promises of several more improvements. Now within has been built and homese will be removed from present cream.
Broadway	Belle Mead Farmers' Ex hange Co	State Manual Paris Company C
('olumbus		Kenneys at 10 sees from founding in real of creamers to a new building and confidence of the creamers of the creamers ment built. New building and equipment. New cement floors. New cover for receiving vat.
Haledon Hanburg Hampton Hixon Front Free Control Front Free Control Free Control Free Control Free Control Free Control Free Free Control Free Free Control Free Free Control Free Free Control Free Free Control Free Free Free Free Free Free Free Fre	Harkettstown Alex. (Hulpbell Milk Co. [Ialedon Hemen Tilch. [Iamburg Diamond Dairy Co. [Iampton Plainfold Milk and Cream Co. [Ixon C. Van Herwarde. [Ixon Frington F. Sthormann.	Constructed a special from for washing cans and diensis separate and apart from milk room. New building and equipment. New mechanical Fefrigeration; new wash boxes. New mechanical refrigeration; new wash boxes. Floors repaired. New building constructed; not yet approved. Therefore arrefuses shear shear that smooth hourds and mainted.
Jerses City Lebanon Middlebush Maughright Newark New Brypt Now Bry	Jersey City Greenfield Dairy Co. Middlebun (C. Clark & Son. Middlebun (C. I. Van Cleet Maggbright (Du Bols Brethers Newark (Du Bols Brethers New Egrpt (De G. Balzerett North Haledon, D. H. Peth. Paterson (Cornelius Dooren Paterson (Cornelius Dooren Otto C. Fulboam Paterson (George Marklim Paterson Alex McCodd Quinton J. G. Sprattler.	

Table Showing Oreameries in Which Marked Improvements Have Been Made During the Year.—Continued.

IMPROVEMENTS NOTED.

OPERATOR.

LOCATION.

Salem Bridgeton Condensed Milk Co Interior of receiving room lime-washed; new sanitary pipe for transfer-	Sharptown Wm. Richman Unsunitary privy removed; brick addition to building containing bath room, lavatory and closet for employes; new covers for receiving vats.	Sparta George Ihnken New bottling machine and can washer Stockholm George Innken Stockholm George Innken George Innken Stockholm George Innken Stockholm	by fire. New floor: interlor surfaces painted; screens provided; new cold stor-	age room; better dramage disposar. Building enlarged; new skimming room; new sanitary pump; metal covers for receiving very intensity and sanitary pump;	ZZZZ.	Cleaning of premises. Woodstown Supplees' Alderney Dairy Co New drainage disposal system; covers for vats and cooler; several limproved methods in handling milk.
Salem Bridgeton Condensed Milk Co	Sharptown Wm. Richman	Sparta George Ihnken Niockholm George Ihnken Nussex Heakes Dalry Co. Nussex Dalry Co.	SwartswoodCedar Dairy Co	Three Bridges Amwell Valley Dairy Co	Trenton Snyder Pasteurized Milk Co. Warbasse N Wayne Folley. Wayne House A. C. Durling.	Woodstown Supplees' Alderney Dairy Co

During the year we were requested by the local boards of health of Rutherford and South Orange to furnish them with records of the conditions existing on every dairy premises whose product enters into that sold within their respective jurisdictions. We found it necessary, in order to make a complete report, to visit several New York and Pennsylvania creameries, and also to inspect and score each dairy supplying these creameries. Our records show that 181 dairies supplied the five creameries visited. A report and score was made of each creamery, the same as is made of the creameries within our own State. It was necessary to notify the owners in three of them that their buildings and equipment did not meet with the requirements of the New Jersey law. As an example, the following recommendations made by the inspector who visited the Skinners Falls, N. Y., creamery, will show the conditions in that creamery.

The inspector recommends:

- 1. That the second floor of the bottling room be replaced by a suspended cement floor. At present, it is worn and leaks in several places, the leakage being plainly visible on the first floor. This leakage is very apt to fall into the cheese vat, and it is the practice of the attendants to move the cheese vat to different parts of the room in order to avoid the leakage from the second floor falling into the cheese.
- 2. That some suitable cover be placed on the receiving vat. In summer there is no protection against flies entering this vat.
- 3. That pipes of short lengths and proper connections take the place of the present twelve-foot iron pipe which connects the receiving vat with the milk heater. This pipe is taken down only once a week for cleaning.
- 4. That the boiler and coal room be separated from the room where the milk is skimmed and cheese is made. There is a pile of soft coal twenty feet from the separator, and the firing of the boilers is done while the work of separating is being performed.
 - 5. That the interior of the first floor be painted.
 - 6. That the cooling pools be emptied oftener than once a week.
- 7. That a trap be connected with the four inch sewer inlet and that a strainer be placed over the same. The drainage is discharged about forty feet from the end of the building, and finally enters the Delaware river.

The local board of health of Rutherford was notified of the conditions found in this creamery, and insisted upon improvements being made by the owners as a prerequisite to their shipping milk for distribution in Rutherford. No conditions similar to those reported of this creamery exist among the creameries operating in this State, and no creamery could be licensed until such conditions had been remedied.

The following are the names of the creameries outside of our State referred to above:

Location.	Operator.
Brisben, N. Y	Borden's Condensed Milk Company.
Gracie, N. Y	Baldwin-Lester Corporation
Hickory Grove, Pa	June Dairy Company.
Kirkwood, N. Y	June Dairy Company.
Skinners Falls, N. Y	Fulboam Dairy Company

The information gained in the inspection of the above creameries confirms our opinion that the creameries of our State are conducted on better sanitary lines than those of adjoining States, and we believe are equal to any in the United States. We therefore feel that the purpose of this Board to place New Jersey creameries in the highest class for sanitary management has been largely achieved.

Inspection of Ice Cream Factories

An amendment to the law known as the creamery act (P. L. 1906, ch. 139) was passed by the Legislature at its last session, giving the law definite application to ice cream factories. The original act made it the duty of the State Board of Health to inspect establishments in which milk or its products were manufactured into "food for human beings," and while it mentioned a number of such foods, it did not specifically designate ice cream. This caused some embarrassment, because several of the creameries which handled milk and cream for market purposes had installed ice cream machinery, and for part of the year devoted their energies exclusively to this branch of the business, dropping the sale of raw milk and cream. The question of whether a license was required for the conduct of such places then arose, and was only definitely settled by the amendment referred to.

Additional legislation took place during the session on the subject of ice cream factory inspection, and may be found in "An act to amend an act regulating the age, employment, safety, health and working hours of persons employed in factories, approved May 1, 1911." The third section of this act provides that no ice cream shall, after the passage of the act, be manufactured in any cellar, basement or place unless after inspection of such premises by the agents of the Board of Health of the State of New Jersey, a license shall be granted by the said Board to the owner, etc.

The additional work which the enforcement of these amended acts has involved has taxed to the utmost our ability to inspect and pass upon the sanitary condition of each place, so as to be able to recommend to the Board the licensing of only such places as are reasonably free from conditions which might render the food manufactured dangerous to health.

Investigation into the manufacture of ice cream may be divided into the following four classes:

- 1. Character of ingredients.
- 2. Sanitary precautions in the process of manufacture.
- 3. Methods of handling and storing.
- 4. Construction and equipment of factories.

During the year 115 samples of ice cream or its ingredients have been collected and delivered to the Laboratory of Hygiene for analysis. These consisted of raw materials and the finished product. So far as our investigations show, the only articles which enter into the manufacture of ice cream in this State are milk, cream, condensed milk, gelatine, sugar, eggs, "egg powder," "ice cream powder," fresh and canned fruits, chocolate, cocoa, flavoring extracts and coloring agents.

A pure and wholesome milk and cream supply is a most important consideration in ice cream manufacture, and the most satisfactory way of preventing the contamination of these principal ingredients is that adopted by this Board, of exercising close sanitary supervision of dairy farms. In our investigations into ice cream manufacture, we are careful to inquire into the source of the milk and cream supply and the methods used by the operator in handling and caring for it while in his possession. Our office records show the sanitary condition of about fifteen hundred dairy farms, and nearly two thousand inspections of them during the year. These data enable us to judge the quality of the milk handled and to trace any trouble which may occur by the use of Other ingredients are used as fillers and binders, such milk. coloring agents and flavoring extracts, and it is our intention to continue the collection of samples of these substances for analysis during the coming year.

The manufacture of wholesome and sanitary ice cream, whether or not the ingredients used include gelatine, condensed milk, etc., is a problem which is not at all considered by most manufacturers; their main object seems to be to prepare a salable article without especial regard to its wholesomeness, and in many establishments little thought is given to the careful handling of the materials in the process of manufacture. It should always be remembered that ice cream is eaten in an uncooked state, and that it is very susceptible to contamination through careless handling.

To illustrate the methods used in the factories in this State in handling ice cream during the process of manufacture, a table has been prepared and appears elsewhere in this report. The sum-

mary of this table shows that out of 415 factories visited, the number in which good methods were reported was 40; those reported fair, 216; poor, 155, and bad, 4. Thus it will be seen that perfectly satisfactory methods were found in only 40 establishments, or about 10 per cent. of the 415 factories inspected. Credit has been given under "Methods" only where proper facilities are installed for cleansing vessels and utensils, and where the raw materials and finished products are handled and stored in a manner to preclude any possibility of contamination. Several of the factories included in the group of 216 which we have designated as "fair" can easily raise their standard to the first class by installing better, though inexpensive, equipment and by the exercise of a little more care in the handling of the edible materials under their The 155 factories which we have classified as "poor" under the heading of "Methods" were found, on first inspection, to be handling the product in an unsanitary way, but many of them, on being notified, made changes in their practices which placed them in a better light on reinspection. This is shown in the table referred to under the heading of "Improvements."

The following manufacturers were notified by the Board to cease the manufacture of ice cream in their present establishments because the places were unfit to handle and store any food product:

A. Peter Tallio	Boonton, N. J.
Michael Anodo	Dover, N. J.
Henry Schilling	Fort Lee, N. J.
Columbia O. K. Ice Cream Co	Jersey City, N. J.
Joseph Massary	Roebling, N. J.
Theodore Ekonomon	Trenton N. J.

In July, 1911, a license was granted by the Board to Lephakis and Carantino, of Dover, but was subsequently revoked on account of alleged sickness resulting from eating ice cream there manufactured. This matter was thoroughly investigated by officers of this division, and the license was re-issued after certain improvements were made, since which time reinspections show the place to be well conducted.

The act of 1906 contains provisions relative to the construction and equipment of creameries and ice cream factories, and the use of any part of a dwelling for creamery purposes is prohibited. The act approved May 1, 1911, however, was passed at the request and earnest solicitation of ice cream manufacturers and per-

mits the occupation of cellars and other parts of dwelling houses for the manufacture of ice cream under proper conditions. This provision of the law reads as follows:

And provided further, that no ice cream shall, after the passage of this act, be manufactured in any cellar, basement or place, unless after inspection of such place of manufacture by the agents of the Board of Health of the State of New Jersey, a license shall be granted by the said board to the proprietor, corporate or otherwise, of such establishment or factory, certifying that the condition and arrangement of such ice cream factory is sanitary, which said license may be revoked by said board, for cause, at any time.

The Board of Health has never sanctioned the use of underground factories for the manufacture of articles of food. and basements are usually poorly lighted and ventilated, and bad odors are quite prevalent in such places. The interior surfaces are hard to clean and leaky pipes frequently emit sewer gases. Rubbish, old clothing, fuel and family supplies are also stored in cellars, and frequently rats, roaches and other insects have been seen in great numbers. All of these things have a bearing on sanitary conditions. Our investigations show that ice cream is made in 229 cellars, and that 186 factories are located above ground. Licenses have been granted to 76 factories which are located below ground. Most of these licensed cellar factories are located in Hudson county, and licenses were only recommended after they had complied with the Board's requirements in the matter of smooth, readily cleaned interior surfaces, and proper washing facilities and manufacturing equipment.

We were ably assisted in our endeavors to bring these places up to the law's requirements by the New Jersey Retail Ice Cream and Candy Manufacturers' Association, at whose instance the law was passed, and whose officers recognized the fact that unless the basements were made fit, no license would issue. In some instances they have refused membership in their Association to dealers who failed to make improvements, and have notified us of conditions in factories which they knew would not meet with this Board's approval.

We have adopted the score-card method for ice cream factory inspection and find it satisfactory, as it enables us to place the proper estimate upon each establishment, and shows by its ratings the condition of each factory. There are 14 items scored under the heading of "Equipment," and 9 under the heading of

184 REPORT OF STATE BOARD OF HEALTH.

"Methods." By the use of the score-card we can determine the exact conditions found in these factories and have a satisfactory filing record for future reference. The owner can also be furnished a copy of the score-card and can thus readily see the defects of his place. If he is progressive and willing to improve his surroundings, he may then do so with a full knowledge of the criticisms made by the inspector. The score-card is arranged in two columns, one for "Equipment," which deals with location, surroundings, proper rooms, floors, drainage, interior surfaces, light : and ventilation, screens, washing facilities, storage, racks for draining cans, wash basin, soap and towel for use of employes; sanitary condition of apparatus and utensils, and water supply. For these items a total of 32 points is given. Under the heading of "Methods" 34 points are given, which are intended to emphasize the importance of cleanliness and care in handling the materials entering into the manufacture of the product. The items under this head relate to the cleanliness of floors, walls and ceiling, freedom from flies, cleansing of cans and utensils, protection of the raw materials and of the finished product, and the cleanly habits of the employes. Following is a copy of the score-card:

BOARD OF HEALTH OF THE STATE OF NEW JERSEY.

DIVISION OF CREAMERIES AND DAIRIES.

ICE CREAM FACTORY RECORD.

Date	. 19	Score	
Name			
Street and Number			
Town		County	
Raw Materials			
Purchased from			
Quantity of ice cream manufactured d			
Remarks:		• • • • • • • • • • • • • • • • • • • •	
••••	• • • • • • • • •		Inspector.

:	800	DRE.	!	sco	RE.
EQUIPMENT.	Perfect.	Allow.	METHODS.	Perfect.	Allow.
1. Location, above ground, 2. Free from contaminat-	1		15. Cleanliness of floors 16. Cleanliness of walls and	3	
ing surroundings 3. Proper rooms 4. Floors, non-absorbent and properly graded	1 2 3		ceiling	4 2	
5. Drainage	3		steamed (2); washed with warm water (1). 19. Cleanliness of cans and	4	
cleanable	2 2		utensils	8	
8. Screens 9. Boiler (4); hot water heater (2)	2 4		21. Handling of product in process of manufacture	4	
10. Refrigeration; mechanical (4); ice box (2). 11. Racks for cans and	4		22. Handling of finished product	2	
utensils	2 1	\`	employes	4	
13. Condition of apparatus and utensils	3 2				
Total for Equipment	32	-	Total for Methods	34	<u></u>

As a result of our investigations into ice cream manufacture, the Board has adopted certain rules for the government of ice cream factories. These rules are twelve in number, and are printed on page 186. They will also be separately printed, and a copy conspicuously posted in every factory in the State:

Rule 1 recommends that ice cream factories shall be above ground, with surroundings that are free from all contamination and refuse accumulations. This rule was recommended because our inspections showed that in many cases ice cream factories were located in buildings contiguous to stables and other fly breeding places.

Rule 2 provides for the proper light and ventilation of all factories, and for suitable floors and drainage systems, as well as smooth interior surfaces. We have found many factory floors to be of poor material. Wooden floors were found to be worn and leaky, and in many cases, there was no system of drainage other than holes bored in the floor, and the waste fluids were allowed to saturate the ground underneath the floor, thereby creating a nuisance. Our files show that of the 415 ice cream factories inspected, 293 had proper cement or other impervious floors, and 24 very much worn and broken cement floors; 93 had wood floors, 25 of which were in poor condition, permitting the waste fluids to escape underneath. We also found that in 5 factories there was no floor other than the earth itself. The table elsewhere published will show improvements in floor construction.

The matter of drainage is a very important feature of sanitation in ice cream, factories, and some most unsanitary methods have been unearthed. Our records show that out of 415 ice cream factories, 290 have drains properly trapped and connected with sewers, and 35 are connected with cesspools. 16 drain their waste fluids on the ground outside of the factory, and 7 dispose of their drainage through holes under the factory floor. We have classified 67 as defective, on account of broken drains, untrapped pipes and indirect connections with the sewers.

RULE 3 also provides that all interior surfaces shall be smooth and free from projections or ledges upon which dust and dirt may accumulate. Our records show that 130 factories meet with the requirements of the law in this respect. 285 of them receive no credit on the scores for a compliance with this rule, because the surfaces were rough and in many cases unclean.

RULE 4 provides for the proper location of a factory, and prohibits the manufacture of ice cream in a kitchen, wash room, workshop, &c., or in close proximity to any privy or other contaminating influence. No license has been issued by the Board until the owners of such factories have discontinued their use for laundry work or as living apartments, or until objectionable privies and cesspools have been removed from the premises.

RULES 5 to 8, inclusive, state, in substance, that the owners of all factories shall have a sufficient number of receptacles, made of non-absorbent material, for the storing of milk, cream or ice cream, and shall cause them to be kept clean at all times; that they shall also have a sufficient, pure and wholesome supply of water, adequate facilities for cleansing utensils and containers, and proper racks for draining and storing cans and utensils, &c. The utensils and containers in ice cream factories have been scrutinized very carefully by the inspectors during their investigations, and our records show that only 48 factories were using what might be termed "perfect methods" in cleansing their utensils. In 255 factories, the inspection shows that the cans and utensils were in a fair condition, although they could not be classified as perfectly clean on account of the methods used and the facilities for cleaning them. We found that in 112 factories the cans and utensils were unclean, or what might be termed "poor."

In 34 factories there were good washing facilities; 195 were classified as fair only, and poor facilities were reported in 186 factories. As an example to show the meaning of this last heading, it may be stated that a factory manufacturing 100 quarts of ice cream daily, with no other washing outfit than a one-burner gas stove with a small pot for heating the water, is considered to have very poor cleansing facilities. In other factories, manufacturing very large quantities of ice cream, only the exhaust water of the gasoline engine is used. These practices we have discouraged, and during the year many improvements have been made with respect to more adequate hot water facilities.

RULE 9 states that the re-freezing of milk, cream or ice cream is prohibited. The practice of re-freezing ice cream has been carried on to some extent in this State, and is to be severely condemned on account of the liability of chemical changes taking place in the product, and causing ice cream poisoning.

RULE 10 prohibits the operator or employe of the factory from using his bare hands for the manipulation of the raw substances used in the manufacture of ice cream. Our investigations show that this is a common practice among ice cream manufacturers, and that they have been detected in using their hands in the raw materials or finished product when they were anything but clean.

RULE 11 states that every factory must be equipped with a basin, soap and towel so that the employes can frequently wash their hands. This rule will be insisted upon in our future inspections.

RULE 12 provides for protection against flies and other insects from the first day of April to the thirty-first day of October.

LIST OF ICE CREAM FACTORIES LICENSED BY THE STATE BOARD OF HEALTH.

LOCATION		PROPRIETOR.	STREET AND NUMBER.
Allenhurst		Grenell & Schenck. W. J. Cooper. W. J. Conce. Kurrus Ice Cream Co. Reid Ice Cream Co. T. J. Winckler F. Stadler Jas. M. Applegate E. Betsworth L. Haas W. H. Sanborn.	
Ashiiry Park		W. J. Cooper	109 Second St.
44	1111111	W. J. Conce	616 Cookman Ave
		Kurrus Ica Creem Co	025 Monroe Are
		Daid Too Crosm Co	OOO Monroe Ave
		T T Winebles	715 717 Modian Ave
		D Chadlan	115-111 MRGIROH AVE.
Atlantic City.		C. Stadler	10 S. Virginia Ave.
Bay Head	• • • • • • {;	Jas. M. Applegate	Lake Ave.
Bayonne	• • • • • •	E. Betsworth	161 Broadway.
		. Haas	916 Broadway.
Belmar			
Blairstown		Clark Jones.	
Blairstown Bradley Beach. Bridgeton Camden		W. H. Wyckoff	25 Main St.
Bridgeton		Arctic Ice and Milk Co	110-112 Cohansey St.
Camden		Excelsior Ice Cream Co	320-324 Taylor Ave.
"		L. Haines Ice Cream Co	Broadway and Kaighn Av
44		Chas. Pfisterer	1174-76 Kaighn Ave.
Collingswood		Vigurica J Murnhy	22 Collings Ave
Dover		Inheria & Carentino	11 W Blackwell St
	1	Orin P Colo	85 E Blackwell St
Foot Owner		Vill I. Cult	274 Cinth Ave
Dischoth		Clark Jones. W. H. Wyckoff Arctic Ice and Milk Co Excelsior Ice Cream Co L. Haines Ice Cream Co Chas. Pfisterer. Maurice J. Murphy Lephakis & Carantino. Orin P. Cole Monroe & Heberling James J. Norton Henry Pfeiffer. Fred H. Van Der Burgh. Fred Jennings J. P. Lance. Standard Ice Cream Co	1017 DIALII AVE.
Eniradecu	• • • • • • • •	James J. Nortod	210 Second St.
	• • • • • • • •	rieury Fielmer	208 Third St.
_ "		Fred H. Van Der Burgh	21 W. Jersey St.
Freehold	i	Fred Jennings	42 W. Main St.
Frenchtown		J. P. Lance.	
Guttenberg		Standard Ice Cream Co	695 Adams St.
Hoboken	1	Fred Bremkamp	308 First St.
"	1	Herman F. Kusel	1000 Washington St.
Hopewell		Edw. R. Whitehead.	
Irvington		J. T. Castle Ice Cream Co	19-49 Loretta St.
Jersey City		Valentine Bachmann	186 Central Ave
		Thee Rinm	678 Ocean Ave
	• • • • • •	I F Bormann	478 Ocean Ave
		Tohn Roschen	gsi Nowark Aro
		Chan Dradahanet	194 Noment Ave.
	• • • • • •	Daymanan	707 Chand St
	• • • • • • •	r. Drummer	131 Grand St.
	• • • • • • •	J. H. Bullock	Toye Flace.
	• • • • • • !	Henry Cordes	855 Bergen Ave.
		Wm. Cordes	579 Ocean Ave.
	'	Chas. Dreienbach	68 Ocean Ave.
		R. Goebel	734 West Side Avq.
" " . <i>.</i> .	:	J. Greve	375 Palisade Ave.
· · · · · · · · · · · · · · · · · · ·		B. Hanneken	379 Grove St.
" "		Wm. Hanneken	235 Newark Avc.
·· · · · · · · · · · · · · · · · · · ·	1	J. Harting	311 Jackson Ave.
44		August Heins	344 Central Ave.
** **		John H. Hess	175 Mercer St.
		Arthur Jachtman	136 Newark Ave.
		Chas. Kornmeler	801 Ocean Ave
		C Kroncke	491 Grove St
		Chos Kuhikan	186 Teckson Ave
	• • • • • • • •	John Tindohoom	952 Control Avo
	• • • • • • •	Mohatana & Mohlamback	452 Chomo St
	'	Mentens & Monienoack	14.05 Grove St.
		ii. Meyer	149 Bergen Ave.
		reter Meyer	Zuo Central Ave.
		August Mueller	425 Jackson Ave.
	'	L. J. Piercy	190 Bergen Ave.
*		Henry Prigge	181 Monticello Ave.
		C. E. Rector	'126 Monticello Ave.
		A. Reyelt	728 West Side Ave.
		Chas. Revelt	348 Communinaw Ave.
		Henry Revelt	184 Ocean Ave.
	1	R Schnenels	216 Newark Ave
		Datar Schult	249 Seventh Ave
		Honn- Cohmacks	450 West Cide Ave.
		TI Clamaca	TOO WEST BILL AVE.
	• • • • • •	n. siemsen	TOO WEST SIDE AVE.
· · · · · · · · · · · · · · · · · · ·	!	Fred H. Van Der Burgh Fred Jennings J. P. Lance. Standard Ice Cream Co. Fred Bremkamp Herman F. Kusel. Edw. R. Whitehead. J. T. Castle Ice Cream Co. Valentine Bachmann Chas. Blum J. F. Bormann John Boschen. Chas. Blum J. F. Bormann John Boschen. Chas. Bredehorst. F. Brummer. J. H. Bullock. Henry Cordes. Wm. Cordes. Chas. Drefenbach R. Goebel. J. Greve. R. Hanneken. J. Harting. August Heins. John H. Hess. Arthur Jachtman Chas. Kornmeler C. Kroncke Chas. Kuhlken. John Lindeboom Mehrtens & Mohlenback H. Meyer. Peter Meyer August Mueller L. J. Piercy Henry Prigge C. E. Rector A. Reyelt Chas. Reyelt Chas. Reyelt Henry Reyelt R. Schnepels. Peter Schult Henry Winter A. Wintjen. Wilbur F. Day Herman Vicdt L. Bamberger & Co.	DUZ West Side Ave.
" "		A. wintjen	382 Central Ave.
Morristown		Wilbur F. Day	South St.
44		Herman Viedt	20 Park Place.
• • •			

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T.O.G.L. M.T.O.V.	DDADDYWMAD.	
LOCATION.	PROPRIETOR.	STREET AND NUMBER.
N:	non-Tila on-	10 77 771
Newark	Bernhard Cluss	19 Washington Ave.
"	Carl Doerr	200 Clinton Ave.
44	Urmann Moskow	7 Polmont Are
	Hahne & Co Hymann Moskow New Jersey Ice Cream Co	216 Mt Pleasant Ave.
**	Geo. W. Phillips	791 Summer Ave.
44	Marion Sandall	1855 Broad St
New Brunswick	C. E. Bedford	6 Franch St
	Graham' & McCormack	74-76 Church St.
	Graham & McCormack E. A. Intermann	329 George St.
" "	M. Wallach	36 Albany St.
Orange	John H. Peper	236 Main St.
	Frank Ponzini	16 Cone St.
	Louis C. Stock	377 Main St.
"	Louis C. Stock J. E. Waterman Frank M. Uehlein M. W. Frank	312 Main St.
Passaic	Frank M. Uehlein	292 Main Ave.
Paterson	M. W. Frank	395 Totowa Ave.
	J. V. Ernest	Main and Market Sts.
	R. C. Hill	
	M Potenh (Foole Ice Cream Co.)	15 Clinton St
**	Wm Winds	210 Market St
Plainfield	Dehelo & Stahl	111-112 Somerest St
' ' · · · · · · · · · · · · · · · · · ·	M. Potash (Eagle Ice Cream Co.) Wm. Wieda. Debele & Stahl. Demolli & Co.	331 W. Front St
**	P. B. Hodge	Watchung Ave. & Front St.
**	E. R. Mills	1217 W. Front St.
**	L. W. Randolph Schreiner Bros	143 W. Front St.
",	Schreiner Bros	152 Park Ave.
Princeton	J. B. Renwick	82 Nassau St.
Red Bank	Oscar Hesse	9 W. Front St.
Dutharford	C Vandarharet	29 Broad St.
Somerville	C. Vanderhorst	2 Wile Ave.
Trenton	William Allfather	N Warren & Reading Sta
***************************************	J. F. Hancock's Sons Co	26 Commerce St.
**	Hildebrecht Catering Co	W. Hanover & Chancery Sts
**	Hildebrecht Catering Co	224 S. Warren St.
••	Gregorias Loukapoulas	118 N. Warren St.
44	Manning & Brink	419-421 N. Montgomery St.
44	John Newman. Wm. B. Riker & Son Co Alvah Smith.	Calhoun & Passaic Sts.
	Wm. B. Riker & Son Co	Broad & State Sts.
** *****	Alvan Smith	271 Hamilton Ave.
Union Hill	Man Glandori	126 Fourth St.
	Mrs. H. Hoyer	292 Bergenline Ave.
	Mrs. J. Minuerman	199 Fourth St
West Hoboken	Alvan Smith. H. Glandorf. Mrs. H. Hoyer Mrs. J. Minderman J. Steinbecker. William Heintz William Hes Chas. Mahnken H. Von Spreckelsen	485 Palicado Avo
H HOUSEH	William Heis	245 Summit St
" "	Chas. Mahnken	245 Clinton St.
** **	H. Von Spreckelsen	413 Spring St.
West New York	H. Von Spreckelsen	617 Bergenline Ave.
Woodbury	John Urban	174 S. Broad St.
	_	

The following table shows the number of inspections made of each ice cream factory reported, the conditions found in the building and equipment, the methods used in the manufacture of the product, and the improvements, if any, which have been made during the year:

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To t) G_1

Report on the State Laboratory of Hygiene.

R. B. FITZ-RANDOLPH, Director.

To the Board of Health of the State of New Jersey:

GENTLEMEN—I have the honor to submit the following report on the operation of the Laboratory of Hygiene for the year ending October 31st, 1911.

The present report deals only with that portion of the laboratory work relating to the examination of specimens from suspected cases of communicable diseases which are sent by physicians throughout the State, and such other bacteriological work as is done at the request of other divisions of the Board.

That portion of the laboratory work relating to the examination of food and drugs is described in the report of the Chief of the Division of Food and Drugs, and the laboratory examination of water and sewage is outlined in the report of the Chief of the Division of Sewerage and Water Supplies.

Ever since the laboratory was moved to its present quarters in the State House it has been handicapped because of the lack of proper office room. The office is also occupied by the clerical force of the Division of Food and Drugs, and the number of employes in that division has increased to such an extent that the office space had become entirely inadequate. During the past year an extension has been constructed adjoining the present laboratory, which provides a satisfactory office, a store and work room, and a small but well equipped animal room. The fact that we are at last able to keep animals for experimental purposes under proper conditions, is a source of much gratification. Heretofore, only a very limited number of animals could be kept, and they had to be housed in cages placed on the floor of the food laboratory, where they were very much in the way. The present

animal room will accommodate comfortably about fifty guinea pigs, which is probably more than we will need to keep at one time for some years to come, unless much more work necessitating the use of animals is done than is now contemplated. It is also provided with an incinerator for disposing of infectious material. From now on we will be able to comply with requests from veterinarians for the examination of specimens from suspected cases of glanders, and we will also be able to make virulence tests on diphtheria cultures whenever requested to do so by physicians.

The bacteriological work of the laboratory is limited to such investigations as relate in some way to the public health. cussion of the reason for such limitations will be found in the report of the laboratory for 1910. Because of these limitations. and because of the smallness of our working force, the operations of the laboratory have been confined almost exclusively as in years past, to the routine examination of specimens from suspected cases of diphtheria, tuberculosis, typhoid fever, malaria, gonorrhoea, rabies, anthrax and glanders. Besides these routine examinations, considerable work has been done in the examination of specimens of fæces and urine from suspected carriers of typhoid fever, and from persons recovering from this disease, in order to determine when they cease to be infectious. aminations were made to aid the work of the Division of Medical and Sanitary Inspection in their efforts to control the spread of typhoid fever. Unfortunately, such investigations consume considerable time, and because of the ever increasing amount of routine work, we were unable to assist this division as frequently as it would have been desirable to do.

The time has come when the work of the laboratory should be broadened. If we had sufficient force, we could render valuable aid to the Division of Medical and Sanitary Inspection, by making bacteriological examinations of various kinds, which would be of much use to them in their epidemiological investigations. It is therefore recommended that a sufficient addition to our annual appropriation be asked for, to secure the services of an additional bacteriologist. The routine work has grown so burdensome, and, because of press of other duties, the director is able to devote so little of his time to it, that our bacteriologist usually has more than he can attend to with the routine alone, and is utterly unable

to undertake many investigations which come within the legitimate scope of our work.

Fortunately, the State has been unusually free from serious epidemics of diphtheria during the year, and we were therefore spared the necessity of examining large numbers of specimens for the bacillus which causes this disease. The number of specimens of diphtheria examined, as shown in table A, which follows, is much smaller than has been the case for three years past. This is due entirely to the absence of extensive epidemics. When such epidemics occur it is the practise to send large numbers of specimens from well persons to the laboratory, in the hope that the carriers, by whom the disease is usually spread, may be detected, but unless a considerable number of cases appears at one time in a locality, local officials do not, as a rule, take this precaution.

The following table shows the number and kind of specimens examined each year since the laboratory was founded:

TABLE A.—SHOWING THE NUMBER OF SPECIMENS OF EACH KIND EXAMINED SINCE
THE LABORATORY WAS ORGANIZED.

 86 8	1899	1000	į	!	- 1	
		1900	1901	1902	1908	1904
600 516 175 4	577 766 339	974 892 481 58	1,864 1,211 789 113	1.487 1,467 884 196	1,883 151	2,949 2,344 1,272 98
16	1.000			55		67 6,780
	516 175 4	516 766 175 839 4 + 16 +	516 766 892 175 839 481 4 • 58 16 • 30	516 766 892 1.211 175 339 431 789 4 * 53 113 15 * 30 28	516 766 892 1.211 1,467 175 339 431 789 884 4 * 58 113 196 1b * 30 28 55	516 766 892 1.211 1,467 1.858 175 339 481 789 884 1,838 4 * 58 113 196 151 1b * 30 28 55 182

	1905	1906	1907	1908	1909	1910	1911
Diphtheria Tuberculosis Typhoid fever. Malaria Miscellaneous	2,896 2,691 1,263 109 84		2,402	3,687 2,543 178	2,261 197	4,520 8,028 244	4,529 4,938 3.342 820 589
Totals	7.048	×,033	8,993	12,618	21.594	16,424	13,718

^{*}The number of these specimens has not been recorded.

An examination of this table shows a steady increase in the number of specimens of all kinds examined, with the exception of diphtheria, and, as has already been explained, the number of diphtheria specimens fluctuates widely from year to year, depending upon the prevalence and distribution of the disease 200

throughout the State, and especially in the State institutions. The number of specimens examined for tuberculosis, typhoid fever, and malaria, shows their normal increase, and the increase in the number of miscellaneous specimens is especially large.

Table B shows the number and kind of specimens examined, which have been classified as miscellaneous.

TABLE B-SHOWING THE NUMBER AND VARIOUS KINDS OF MISCELLANEOUS SPECIMENS EXAMINED DURING THE YEAR.

	Positive.	Negative.	Total.
Gonorrhoea	170	258	428
Rabies	40	26	66
B. paratyphosus	3	37	4 0
B. typhosus, urine		11	11
B. typhosus, fæces		111/2	11
B. typhosus, water	•••	3	3
B. tuberculosis, urine	2	7	9
B. tuberculosis, fæces	• • •	1	.1
B. tuberculosis, meat	1	1	2
B. tuberculosis, spinal fluid		1	1
B. tuberculosis, ascitic fluid		1	1
B. tuberculosis, blood		1	1
Staphylococsus, pus	3	• • •	3
Streptococcus, pus	• • •	2	2
Glanders	2	5	. 7
Treponema pallidum	•••	2	2
Hog cholera	• • •	1	1
Totals	221	368	589

Two things are especially significant about this table. The number of gonorrhoea specimens examined this year was 428 as against 293 for 1910, an increase of 46 per cent., and the number of specimens examined for rabies was 66, an increase over last year of 53 per cent. It is very gratifying to note that physicians are beginning to make more use of the laboratory in their efforts to control the spread of gonorrhoea, which is a dangerous disease. It is to be regretted that many more specimens of this character are not examined, as the laboratory can render important aid to the physician in confirming or disproving his diagnosis.

Attention was directed in last year's report to the rapid increase in the number of cases of rabies in this State. The number of specimens received this year shows that this increase still continues, and it is likely to continue until some efficient and concerted action is taken by local authorities to limit its spreace. Forty specimens were examined, most of them being dogs, in which a positive result was obtained. This number, however, represents but a small fraction of the cases which actually occur. Animals suspected of having rabies are frequently sent for examination to New York or Philadelphia, or to pathologists within the State, instead of to this laboratory, and examinations of such animals are not usually made at all unless they have bitten either a human being or some valuable domestic animal. Rabies is a preventable disease, and the methods for restricting it are thoroughly understood, and it increases only because our local authorities are either too indolent to impose proper restrictions on the owners of dogs, or too timid to insist on these restrictions in the face of the opposition which is certain to arise.

It is necessary to again call attention to the importance of proper collection of specimens to be examined for rabies, and their proper transmissal to the laboratory. If the suspected animal is a dog and is still alive, it should not be killed, but should be securely confined and kept under observation by a competent veterinarian. An animal showing symptoms of rabies will die within a few days, and an earlier diagnosis can usually be made in this manner, than by killing the animal and sending the head to the laboratory.

If the animal has died or been killed, the head should be carefully removed, packed in a tight container, which should be surrounded by ice and shipped by prepaid express to the laboratory without delay. In the examination of animals in which putrefaction has progressed to such an extent as to destroy the integrity of the brain tissue, it is usually necessary to resort to animal inoculation, as microscopical examination of such material does not yield reliable results, and, in that case, a period of from two to six or eight weeks may elapse before it is possible to report the result of the examination. It frequently happens also that animals inoculated with decomposed brain tissue, die of septicaemia before symptoms of rabies have time to develop, and in such cases no satisfactory report can be made.

The following table shows the number and kind of specimens examined during the year, arranged by months:

202 REPORT OF STATE BOARD OF HEALTH.

TABLE C.—SHOWING THE NUMBER OF SPECIMENS EXAMINED DURING THE YEAR,
ARRANGED BY MONTHS.

MONTHS.	Secondary 42 282	Primary.	Secondary.	Primary.	Secondary.	Primary.	Becondary.	Primary.	Secondary.	Totals.
November, 1909	42 282							- 1	OU	₽
January, 1910	388 101 280 107 318 102 318 102 449 106 92 89 67 85 148 40 418 57 128 48 185 185 167 1,362	817 278 392 879 480 413 454 842 298 309 811 853	86 46 45 67 77 60 55 36 42 43 89 66	213 167 172 163 186 175 198 174 255 486 474 271	14 20 17 17 29 20 22 24 23 86 98 38	27 16 18 9 17 20 84 27 81 45 46 26	1 2 1 3 9	80 87 89 41 26 56 52 42 38 61 66 57	3 5 6 2 6 4 7 5 5 5 18 8	1,865 1,091 1,128 1,065 1,288 1,068 1,104 902 876 1,218 1,224 1,434

This table shows the seasonal variation in diphtheria and typhoid fever very clearly, and the absence of any marked variation in the case of tuberculosis.

Table D shows the number and kind of specimens examined, arranged by cities and towns.

TABLE D.—SHOWING THE NUMBER OF SPECIMENS EXAMINED DURING THE YEAR,
ARRANGED BY CITIES AND TOWNS.

•	THE	PH- BlA.		DER- 0818.					Miscel- Aneovs.		
TOWNS.	Primary.	Secondary.	Primary.	Secondary.	Primary.	Secondary.	Primary.	Secondary.	Primary.	Secondary.	Totals.
delphia			1								
lendale	1		2 2					•••••			
llentownlloway	•		1	1	•••••	i		••••			
lpha									i		
ndover	5	10	1								
nglesea rlington	18	2	1 2 1 46	8	10	1	12	•••••	1 12	"i	
sbury	10	í	7	3	10		12		12	1 1/1	
sbury Park	424	158	60	5	61	8	ำาำ	1	8	!	
100	1 1		2							·	
uantic City	67	16	77	6	50	5	8	•	4		
tlantic Citytlantic Highlands udubon	13	3	2 2		1	[·····		•••••		. 	
a PTI AGRAT	l .		5	1	i	ļ;			2	1	
asking Ridge ayhead	7	24	i		2				ı¦	ا'ا	
ayhead			1					• ••••	<u>.</u>	·:[
ayonne each Haven	19	4	69 2	3	84	1	. 8	······	8	,•• •••:';	
edminster	2		<u>ء</u>		1		••••••				
elford	l			1					!		
elleville			7						·		
elmarelvidere	2	1	2		6	2	1	. • • • • •	8	[\	
ergenfield	2	- 1	4	2	i	!		į. 			
erlin			3 8		13	ļ				1	
ernardsville	19	5			7		4		2	!	
everly			2		4	1,	2		1	····· 1.	
lackwood lairstown	4	2	2	1		}	•••••	•••••		;;	
loomfield	1 1	2	22	4	15		2				
loomsbury	2		' 2 1						١,		
loomsbury ogota		ا			ļ <u>.</u>		ļ				
ordentown	15 43	2 24	11 11	8: 2:	6		4	1			
ound Brook	5	1	3	1	5	i					
radley Reach	1 1	İ	8	í							
ridgeport									1		
ridgeport ridgetonurlington	8	·······'	26 22	4.	6	2		•••••	4		
ntler	2	í	4	1:	10	, 8			1	j	
utleraldwell	10	2	8	i i	14		6		3	!!!!!!	
alifon	83	2		1,	1				4		
amden ape May	83	82	197	21 2	134		1		, 22		
ane May Court House			2	. 2	j 4		, • • • • • • • • • • • • • • • • • • •		6	. 1	
ape May Court House arlstadt	6		13	1	4		1 2			******	
edarville	1 1		1	1							
hatham hatsworth	, 1		5			j	ļ		ļ <u>.</u>	····-¦!	
heater	l.			i' 1					3	·····;	
nesterfield	8		3	3							
ayton	i			·····	13	1		ļ	1		
lifton	21	2	· 4	1	10	,'	. 4		4	ļ,	
inton		••••••	1 9	2	1	į	¦	·····			
loster ollingswood olumbus	15	6	7		. 🗦	9	, <u>a</u>	2	1		
olumbus					2	,	, i		i i		
ranbury	, 8	1	1			, ! • • • • • • • • •					
ranfordrosswicks	35	19: 3	. 27		. 9				;		
aretown		່ ຽ	*******		. 1			·			

TABLE D.—SHOWING THE NUMBER OF SPECIMENS EXAMINED DURING THE YEAR, ARRANGED BY CITIES AND TOWNS—Continued.

	DII THE			BER- OSIS.		HOID ER.	MALA	RIA.	LANE		†
TOWNS.	Primary.	Secondary.	Primary.	Secondary.	Primary.	Secondary.	Primary.	Secondary.	Primary.	Secondary.	Totals.
eerfield								·			
elanco			8	1	ļ						<u> </u>
ennisville			8	1	1				1		
over	. 4	1			2		l	•••••	1 2		
umontunellen	. 15	4			! 4		A		, 1		
ast Millstone	.1	*	1					,			
ast Newark			1 2		*******						
ast Orange ast Rutherford	. 1	1		17	22	2	3		3	1	
ast Rutherford	. 4	1	18	1	. 1	2		·		١	
atontown	. 1		2	······		ļ		•••••			
gg Harborlizabeth	$\frac{2}{221}$	2			: 87	······;	1	, •••••		ļ	
Intrapeth	221	74 5	196	33	8/	6	. 8	·	9	,	1
nglewood	.i 1	18	3 22	4'	12			······	Z		i
nglishtown	. 3	5	1 1			1	2				i
nglewood nglishtown airion			2		1	١		1			
airhaven			3			!		ļ		ł I	
anwood	. 6	3	5		1						
ar Hills			1						•••••		
armingdale	. 8		5	1	2				•••••	i	
landers	. 2		1					•••••	,		
lemington lorence	7 2	Ð,	3		2	8					!
ort Lee	2		5	5	7	3					ł
ranklin Kurnaca	1		'		1		********			,······	
ranklin Furnace ranklin Park	-		1							!""" }	
reehold	. 3	6	13	1	16	2.	2		4	i i	
renchtown			2		1						
arfield	12	6	14	1	1 1			اا	2	ļ ,	
eorgetownerman Valleyillette	. 1				٠			'			
erman Valley	. 16	13	5		, 1		1	ļ	3	; ;	
ladstone	· , 2		3 2		12			j ₁		i	
lassboro	1 . "	16	. 1	i					,	:	
len Gardner		••••••	8		-						
len Ridge		*********			1			ii			i
loucester	. 5	3 12	12			1	1				
rantwood	. 9	12	7		2		1		1		
reenwich		•••••					١		2	'	
reystone Park					1	1			•••••		
uttenberg ackensack	. 41	7 35	44		56	'·····	·······				ı
ackensack ackettstown	. 41	35	44	6		11	8		, 2	,	1
addonfield	27	8	14	9	ำเ	2			R		i
addon Heights	1		i		8						
ainesport	. 6'	1								1	
auedon			8							'	
amburg	. 2.				1				•••••	ļ	
amilton Squareammonton	3	1		••••••	1 1					i	
ammontonampton	1 1	••••••	1							······!"	
a mulaam			10	3					1		
arrison ville			10						1 1		
asbrouck Heights			9	1							
arrison asbrouck Heights igh Bridge ightstown ighlands			2								
ightstown	. 10	6	10	8	3	1				,	l
ighlands	. 2		2		4		. 7	ايسنا	2	ا	İ
oboken	. 12	1	1 /1	7	121	12	. 7	3	9	1	l
olmdel			1	1	4	,·····:;;	. 2				1
opewellolly Beach	49	53	1 1	·····	9	2		······		••••	
Our Beach	. 24	25	18	2	19			!	********	;]	i

Table d.—showing the number of specimens examined during the year, arbanged by cities and towns—Continued.

		– – PH-		BRR-		HOID	'i		MISC		<u> </u>
		RIA.		0618.		VER.	MALA	RIA.	LANE		!
TOWNS.	Primary.	Secondary.	Primary.	Secondary.	Primary.	Secondary.	Primary.	Secondary.	Primary.	Secondary.	Totals.
Island Heights	1	1			!!						8 5
Imlaystown	· · · · · · ·		8		·]	•••••	1		5 8
Jersey City	29		258			9	1		6		379
Kearny			11		5		·····		. 3		21 21
KeyportLakehurst	, 7	3	3	ļ	6	1	, ,	· · · · · · · ·	••••••		21 8
Lakewood	7	2	22	1			2		4		44
Lambertville			'9	3		. 16	17		82	2	181
Laurel Springs Lawrenceville	13		1 2			1	, 1		1		10 17 5 8 3 1 35 8 177
Leesburg	' 3	·	Ī		1 1						5
Leonia	1		''		1				1		8
Linden	•••••	¦	. 2	1							3
Little FerryLittle Falls	9	18	6		: 4	1		•••••			35
Lodi	8	1	2		1	1	:' <u></u>	 		, -i	8
Long Branch Lyndhurst Madison	9	1 2 2	. 30 8		110	18	0		· · · · · · · · · · · · · · · · · · ·	•••••	177 95
Madison	, 7	. <i>-</i>	8		11		8		8	•••••	25 29 22 1 8 5 58
ARRESTROLIS			7		7	. 0	. 8		8		22
Malaga			•••••							•••••	1
Manahawkin			2		8					*****	. 5
Maplewood	1		21	9	19	8				,	. 58
Mantua Marlton			1 1	; .	l'. 			•••••		·····;	1
Matawan	1	1	x		1		1.		i I		1 11
Matawan Mays Landing	4	2	6		i i			ı			15
Maywood. Medford	5	6	_ 10	2	2		1		'····		26
Mendham	. 6		3	1	· 1	1			1		. 8 19
Merchantville	20		6		. 8			•••••			58 47
Metuchen	9	••••	9	1	11	2	8	1	6		47
Midland Park Millburn	1		. 1	1			••••••	•••••	6	1	18
Milltown	2 2	2	6		2	·····i	1		i	1,	15
Millville	2		47	_ 8	1		,			•••••	53
Milton		·····;	,				1		1		1
Monmouth Beach	1				1			•••••			i
Montelair					1	1			10		2
Moorestown	82 12	21 8	12. 19		19	2	8	•••••	10		107 114
Morris Plains			19	Z,	1						114
Mount Holly Mullica Hill	23	9	23	10	59	16			1,		141
Mullica Hill Neshanic	8	1	·		4	4	2		2	14,	17
Netcong	8	2			5				,		1 13
Newark	4	1	43	5	9		7		4		70
New Brunswick	9	į	18	10	24	2	3	•••••	11	1	129
New Brunswick New Egypt Newfield	2		10		1				4 11 1		129 6 8 5
Newfoundland New Market	ĩ.		4,								5
New Market	1		i			, • • • • • • • • • • • • • • • • • • •		!	·		1
Newton	27	18	. 10	I	2	1		• ••••		1	5 67
North Branch	-i	5	, 13 2		i		1	····· ,			10
North Bergen					1	1			1		2 54
Nutley North Plainfield	25	17	8	1	2		••••••		1, 1,	••••	54 1
Oakland									,		1
Ocean City	19	6	3		14		•••••				42

TABLE D .- SHOWING THE NUMBER OF SPECIMENS EXAMINED DURING THE YEAR, ABRANGED BY CITIES AND TOWNS-Continued.

	THE		CUL	ER- OSIS.		HOID ER.	MALAI	RIA.	LANE		
TOWNS.	Primary.	Secondary.	Primary.	Secondary.	Primary.	Secondary.	Primary.	Secondary.	Primary.	Secondary.	Totals.
cean Grove	11	20	8	1	9		2			,	
radeli	8	11	1 118	15	47	7	9	1	7	1	
xford	1	•••••	1 2	i	1				••••••	'	
almyra	4	8	: 6		8	. 8	!				
ark Ridge	10	2	6		, 8	1	. 3		; • • • • • • • • • • • • • • • • • • •		
arsippany	1 158	129	1 185	27	78	5					
aterson	18	1	208	25	60	. 5			. 9	·i,	
aulsboroedrickstown	4	2	5	1			}			·····, '	
ennington	4		3						********		
enns Grove.	i		2		2				2		
nsauken	1	8	1			•••••		•••••	•••••	ا;إ	
errineville	1	•••••	104	19	59	1	5	•••••	7	······	
hillipsburg			۱ ۲	1					1		
tmau	1	1	8	41						*****	
ainfieldeasantville	80 29	48	118 21	24 1	. 52 10	7	10		12	4	:
oint Pleasant	14	1			9	i			i		
ompton Lakes	1		18	4:					1		
ort Norris	4	•••••	2	5	. 2		2		3 22 6		
shway	20 57	12	41	6	82	4	•		6	9	
amsey	28	4	15		3	ļ	1				
aritan	• • • • • • • • • • • • • • • • • • • •	2	1	•••••	1						
eadington	6	2	1 12							 	
ed Bankidgewoodidgefield Parkingoes	ð		30		, 14	8	4 5 6				
idgefield Park	28	12	11	1	10		6		1		
isley	1	1	4	1	;	·····		•••••			
iverside	1		10		8						
iverton	4	1	7	1	8	1				······ ′	
ockawayoebling	26 11	4	19 15]	2				. 4	1	
oselle	8				, 19 5	í					
oselle Park	. 9	111	·	, .							
oosevelt osemont				'							
utherford	15		18		5		2		1 1		
ılem	291	125	15	9	4		2				
ecaucus			1		•••••			·····			
e Bright	• •)		12	1	4				1	r:::::iı	
ea Iale Cityergeantsvilleewell	ī								٦ <u>.</u>		
ergeantsville	1		į					••••	·····		
hiloh	7	3	1								
host Hills					1	*******		*****		ii	
kiliman	145	87	14		141	40	17	•••••	8	5	
omerville	31 1	3 5	82 3	í	25 8		17		**********	i i	
outh Amboy outh Orange	9	2	92	4	20	4					
outh Riverpringfieldpring Lakeanhope			2		4					j ¹	
pringrieid	5	•••••	8	8	20	19		•••••			
anhope				i i 1	4	10	4			:::::	
tantontewartsvilletirling			1							I	
tewartsville	2	l		'' 						'	

TABLE D .- SHOWING THE NUMBER OF SPECIMENS EXAMINED DURING THE YEAR. ABBANGED BY CITIES AND TOWNS-Continued.

!	DIF		CULC		TYPI		MALA	RIA.	LANE		
TOWNS.	Primary.	Secondary.	Primery.	Secondary.	Primary.	Secondary.	Primary.	Secondary.	Primary.	Secondary.	Totals.
Succasunna	2		4		8	1					18
Summit	82 1	5	87	2	50	b	6		5		145
Swedesboro	14		5		3		1				2 87
Titusville	5	9 4		*	3		'		1 4	!	37 10
Toms River	6	*	. 1		A						11
Town of Union	2	1:	39	12	· · · · · ·		1				55
Trenton	140	28	569	85	583	106	23		117	13	1.664
Union Hill	11	-	ii	ũ	7	1	i		i		21
Upper Montclair					i				l		ī
Verona			20	1	و						30
Vincentown						1	1				1
Vineland	10		117	14	44	8			11		199
Waldwick	·		2								2 2
Wanaque			1		1					اا	2
Washington	5	8	28	2	12	. 8	; 2	 .	10	2	62
Watchung				<u>-</u>		ا	i		1		1
Weehawken		[']	8		2						10
Wenonah	8		3	2,	5	1					14
West Collingswood			2		1		1		. 2		_6
Westfield	17	. 3	88	4'	19		1		2		79
West Hoboken	1		81		, 1				1		84
West Long Branch			1								_1
West New York	21	1	21	1.	7		1 1		¦		52
West Orange			20	2,	8		9		2		32 8
Westville			4	2		•••••				!!	66
Westwood Wharton	10		82	•••••	19		8				90
Whippany	3				8	•••••••			'		0
White House Station			1		, .	1	;····				7
Wildwood							,		,	l	÷
Wilburtha	-		2	•••••	2			•		····· ,	Ä
Williamstown	20	2	9	4	9	1		1	5	,	50
Woodbine			12		İ	i					22
Woodbridge		9	17	3	2				5	'	56
Woodbury	10	່ ຊັ	. 26		5		3		11	2	76
Woodcliff-on-Hudson	2	-			ĭ	1				1	Š
Woodstown	5	2	4	1	2	1			1		16
Wyckoff			. 1	1	1		1			l ¹	4
Yardville	2		1								8
Blank	10		5					J	1	:li	16
									ľ- 		
Totals	8.767	1,362	4.326	612	2.934	408	811	9	525	64	13.718

Table E shows the list of places where the mailing cases, provided by the laboratory, are kept in stock and may be obtained by physicians upon request. It is here inserted, in order that physicians and others requiring these cases may be enabled to ascertain without trouble where they may be had.

It is the intention of the director to keep these respositories supplied with mailing cases at all times, and persons maintaining them are requested to notify the laboratory promptly of their needs before their stock becomes entirely exhausted. Some little delay in sending out these cases is at times inevitable, but every effort is made to comply with requests for them as promptly as possible.

TABLE E .- LIST OF BEPOSITORIES FOR MAILING CASES.

Allentown
Alloway
AndoverJ. C. Clark, Physician.
Anglesea
Arlington
" August A. Strasser, Physician.
"J. B. Thomson, Druggist.
Asbury Park
AtcoJ. I. Hiverder, Physician.
Atlantic CityBoard of Health.
" Atlantic City Homital
" "
" "
" "
" "
" " Lawrence's Pharmacy, Druggist,
" "Municipal Hospital.
" "
Atlantic HighlandsBoard of Health.
"
Audubon Drug Co., Druggists.
"I. G. Seiber, M. D., Druggist.
Barnegat F. N. Bunnell, Physician.
Bay Head
BayonneJ. A. Balinky & Son, Druggists.
"Board of Health.
"J. H. Burchell, Druggist.
"
"Landells Drug Store, Druggists.
"
" Strauss Bros. Druggists.
BedminsterJ. B. Beekman, Physician,
Belleville
BelmarBoard of Health.
BelvidereFaust Bros., Druggists.
Berlin
" Frank Stern, Physician.
BernardsvilleM. Hemmendinger, Druggist.
Beverly E. S. Adams, M. D. Physician.
Blackwood
Blairstown

BloomfieldBoard of Health.
"
"Geo. M. Wood, Druggist.
BloomsburyJames A. Betts. Physician.
"E. L. Reigle, Physician.
Boonton
"John L. Taylor, Physician.
Cuthbert Wigg, Physician.
Bordentown Deacon's Drug Store, Druggists.
" Samuel W. Fitzgerald, Druggist.
Bound Brook
" "Lloyd & McNabb. Druggists.
Bradley Beach
BranchvilleJ. C. Price. Physician and Druggist. BridgetonBoard of Health.
"
"Blew & Blew, Druggists.
"
"J. C. Loper, Health Officer.
Burlington
"John W. Davis. Druggist.
"
"
ButlerS. E. Estler, Druggist.
Caldwell Edwin E. Bond, Physician.
"
" Essex County Penitentiary.
CalifonBoard of Health.
CamdenBarrett Bros., Druggists.
"
"Board of Health.
"
" E. W. Collins, Druggist.
Cooper Hospital.
Druggist.
Raines, Physician and Druggist.
Tummen, Fnysician.
"
"
"
"
"Lewis H. Wilson, Druggist.
Cape May
"James Mecray, M. D., Druggist.
Cape May Court HouseWillets Corson. Druggist.
Carlstadt
Carteret
CassvilleOtto C. Thompson, Physician.
Cedarville
Chatham
"
w. J. woite, Fhysician.
Chester
W. A. Green, Physician,
Clayton C. F. Fisler, Physician.
Clifton Clifton Pharmacy, Druggists.

Clifton Lester F. Meloney, Physician.
Clinton
Closter Charles A. Richardson, Physician.
Collingswood
Edward B. Rogers, Physician.
ColumbusJ. E. Dubell, Physician.
Cranbury B. F. Van Dyke, Physician.
CranfordJohn Marion, Druggist.
"John R. Reay, Druggist.
Crosswicks
DaretownGeo. Fitch. M. D., Physician.
Dayton Edgar Carroll, Physician.
Delanco
Dennisville
Dover
Diuggists.
DumontJ. E. Pratt, Physician.
Dunellen Edward Pennock, Druggist.
East OrangeBoard of Health.
" "John G. Boytine. Druggist.
"Frank Fieger, Druggist.
" "
" " Grove St. Pharmacy, Druggists.
" "T. G. Schriver, Druggist.
Eatontown
Edgewater Board of Health.
"Paul Goldberg, Druggist.
Egg Harbor CityBoard of Health.
Elizabeth B. F. Davis, Druggist.
" Fred M. Egger, Druggist.
" Elizabeth Gen. Hospital.
"
" C. W. Gorsuch, Druggist.
" Henry Jacobson, Druggist.
" Samuel M. Jacobson, Druggist.
"Jefferson St. Pharmacy. Druggists.
" Martin & Reibel, Druggists.
" Walter I. McCann, Druggist.
"Oliver & Drake, Druggists.
" Elias W. Parsons, Druggist.
"
"
" Board of Health.
Wm. Rulus Richart. Chemist.
Henry J. Schmidt, Druggist.
"St. Elizabeth Hospital.
"Edward Steeb, Druggist.
" F. C. Strutzlen, Druggist.
Elmer
Englewood Lewis W. Brown, Druggist.
" Bureau of Associated Relief.
" Englewood Hospital.
"
"
"
Englishtown

Fairton Harry E. Lore, Physician.	
Far HillsF. L. Field. Physician.	
FarmingdaleV. Bacon, Druggist.	
"	
Flanders Board of Health.	
Flemington Franklin C. Burk.	
Florence David Baird, Jr., Physician.	
Fort Lee	
" " Max Wyler, Physician.	
Franklin Furnace	
Freehold W. B. Duryee, Druggist.	
"Joseph H. Rossell, Druggist.	
FrenchtownF. H. Decker, Physician.	
Garfield Bradley A. Reynolds, Druggist	١.
German Valley S. G. Lee, Physician.	-
" "	
Gladstone	
Glassboro F. G. Thoman, Druggist.	
Glen Gardner	
Gloucester Atlantic Pharmacy, Druggists.	
Grantwood	
"	,
" H. F. Goemann, Druggist.	
GuttenbergJacob B. Zimmerman, Druggist	t.
HackensackAlex. Denig, Druggist.	
" Hackensack Hospital.	
" Eugene A. McFadden, Physicis	an.
" C V S Rea Druggist	
"	
"	
"T. E. Van Stone, Druggist.	
Hackettstown	
"	
Haddonfield W. W. Flitcraft, Druggist.	
" R. Willard Druggist.	
Hadden Heights	
Hainesport	
HaledonLeo Joffe, Druggist.	
HamburgJoseph G. Coleman, Physician.	
Hamilton Square	
Hammonton	n.
Hampton Morris R. Allbright, Druggist,	
HarrisonBoard of Health.	
" Chas, W. Rothe, Druggist.	
" M. F. Squier, Druggist.	
Hasbrouck HeightsJ. A. Powelsen, Druggist.	
HighlandsJohn L. Oppermann. Physician	_
Hightstown	ш.
"	
Hababan Calla Danaist	
Hoboken Frank O. Colis, Druggist.	
A. J. Dittmar. Druggist.	
" Jefferson Pharmacy, Druggists	
"	
"	
"St. Mary's Hospital.	
"	
"	
" J. F. Zenneck, Physician.	

TABLE E.—LIGI OF REPOSITORIES FOR MAILING CASES—COMMINGE.
Hopewell
Hudson Heights
Imlaystown
IrvingtonJohn F. Ahrens, Druggist.
"
Island Heights
Jersey CityBoard of Health.
" " James D. Adams, Druggist.
" "J. G. Block, Druggist.
Boulevard Fnarmacy, Druggists.
Frank U. Cole, Druggist.
A. Gold. Druggist.
" "
" "J. M. Holloway, Physician.
"F. Lischke, Druggist.
" "
" "
" "
" "G. A. H. Mielke, Druggist.
" "
" "
" "Stein & Co., Druggist.
" "
" " E. H. Struckman, Druggist,
" "
" "
" "George H. White. Druggist.
" "Samuel Weber, Druggist.
KearnyBoard of Health.
Kenvil E. W. Kirkpatrick, Physician. Keyport R. C. Walling, Druggist.
"
Lakehurst
Lakewood
"Leon A. Taylor, Druggist.
" D. H. Hills Drug Co., Druggists.
" The Harrison Drug Store, Druggists.
Lambertville
Landing Board of Health.
Lawrenceville E. K. Fee, Physician.
Layton Edward W. Jones, Physician.
Layton Edward W. Jones, Filysician.
Leesburg
Linder Wald George W. Evans, Doard of Mealth.
Little Falls
Long BranchE. B. Blaisdell, Druggist.
rank N. Gano, Druggist.
Lumberton
LyndhurstJohn W. Clarke, Physician.
·

Madison
"
" Wm. H. Larison, Druggist.
Magnolia Leslie C. Lyon, Physician.
Maplewood
"G. H. Taylor, Druggist.
Matawan
"
Mays Landing Henry C. James, Physician.
MaywoodFrank Freeland, Physician.
Medford
Mendham Leo Robinson, Druggist.
MerchantvilleJ. W. Kohlerman, Druggist.
"Lewis R. Whitacre, Druggist.
Metuchen
"Board of Health.
"L. Y. Lippencott, Physician.
Middletown
Midland ParkJoseph Payne, Physician.
MidvaleMr. Dubler, Physician.
" Shippee's Pharmacy, Druggists.
Millburn
Millville Emergency Hospital.
"
Montclair
M. J. Synott, Physician.
Moorestown
Morristown
"
"
Mount Arlington
Mount Holly
" "Jones Pharmacy, Druggists.
Mullica Hill
Netcong Drake-Bostedo Co., Druggists.
" H. W. Thayer, Druggist.
Neptune TownshipBoard of Health.
Newark Thomas W. Corwin, Physician.
"St. Barnabas Hospital.
" W. H. Warren & Co., Druggists.
New Egypt
New Brunswick
" " L. H. Hoaglandy. Druggist.
Druggists.
Schuyler S. Kust, Druggists.
"Edwin R. Van Pelt, Druggist. NewportGeorge E. James, Physician.
Newport
Newton Israel L. Hallock. Inspector. "H. C. Ryerson, Druggist.
Norma
NutleyJames Crammond, Druggist.
"
Auggest.

TABLE E.—LIST OF REPOSITORIES FOR MAILING CASES—Continued.
Oakland E. W. Hamilton, Physician,
Ocean CityBoard of Health,
" " Maddock's Drug Store, Druggists.
Odgensburg
Oldbridge I. C. Crandall, Physician.
Oradell
"
Orange Beegles Drug Store, Druggists.
"John Frederick Behrens, Druggist.
"
"
Palmyra
Park Ridge Henry C. Neer, Physician.
PassaicBoard of Health.
" Henry Balson, Druggist.
"
"
"Otto Laue, Druggist.
"
"
" Eugene Richter. Druggist.
"B. Rood, Druggist.
st. Mary's Hospital.
" W. H. Stemmerman, Druggist. St. Stephens' Pharmacy, Draggists.
"
PatersonBoard of Health.
"
" Eye and Ear Infirmary.
"
"
"St. Joseph's Hospital.
Paulsboro
" W. J. Moore, Druggist. Pensauken F. A. Seaman, Druggist.
"
" "
Perth AmboyBarnekoo & Petz. Druggists.
" "G. W. Fithian. Physician.
Itamsey, I hysician.
A. Seaman, Druggist.
Phillipsburg
"
PlainfieldBoard of Health.
" E. F. Chaplin, Druggist.
Pleasantville
"J. H. North, Physician. Point PleasantA. B. Johnson, Druggist.
Pompton Lakes

TABLE E. MIST OF REPOSITORI	En rol maining Cables—Continuent.
Port Norris	. Samuel T. Day, Physician.
Princeton	March & Co. Druggieta
"	. William L. Briner, Druggist.
D-1	. William D. Driner, Druggist.
Rahway	. George F. Brown, Druggist.
	. Davis' Pharmacy, Druggists.
44	N. J. Reformatory.
44	Joseph G. Smith, Druggist.
Ramsey	
Raritan	
Red Bank	
Ridgewood	
44	. H. A. Tice, Druggist.
	. W. L. Vroom, Physician.
Ridgefield Park	. Charles Albert Knox. Physician.
	. H. C. Elsing, Physician.
Ringoes	Pater R Voung Physician
Riverside	Louis M Hiros Druggist
44	Warran C Dina Dunmint
	. Warren C. Pine, Druggist.
Riverton	. Alex. Marcy, Physician.
	. ('has. Street Mills, Physician.
Rockaway	. George H. Foster, Physician.
"	. Frederick W. Flagge, Physician.
Roebling	
Roselle	
Roselle Park	. Board of Health.
	George H. Horning, Druggist.
Rosemont	G. N. Best, Physician.
Rutherford	. Board of Health.
	Wm. H. Andrews & Co., Druggists.
14	
44	
Sea Bright	
Seaside Park	
Shiloh	
Titusville	M. S. Simpson, Physician.
	N. J. State Village for Epileptics.
Somerville	
	Philip P. Cron, Druggist.
South Amboy	
	D. Meacham, Physician.
South Orange	
South River	I. Evans Selover, Physician.
Springfield	
Spring Lake	
	Ann May Memorial Hospital.

Stanhope	
Stewartsville	
Succasunna	N. H. Adsit, Physician.
Summit	Wm. Tyler Green. Druggist.
	William H. Rogers, Druggist.
Sussex	
	H. D. Van Gaasbeck, Physician.
Swedesboro	
Tenafly	
	F. G. Bower & Son. Druggists.
66	J. M. MacKellar, Physician.
Toms River	. Board of Health.
	. Frank Brouwer, Physician.
••	

Thomas of Marion .	
Town of Union	
F. Henstern, Druggist.	
Quigley, Physician.	
Lamoeroack & Bischon, Druggists.	
David Weisman, Druggist,	
Trenton Baker's Drug Store, Druggists.	
Druggist.	
State Laboratory of Hygiene.	
Bourd of Health.	
Praggists.	
Druggists.	
B. Hugnes, Druggist.	
William Jackson, Druggist.	
Keuper, Druggist.	
Druggist.	
Druggist.	
I. n. Mackenzie, Physician.	
Bruggists.	
Scott's Flarmacy, Druggists.	
st. Francis Hospital.	
Scott & Drug Store, Druggists.	
Bruggist.	
"	
"	
UnionJ. M. Stites, Physician.	
Union Hill	
Verona	
"	
Vineland	+0
"	Lo.
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"	ha
Women.	cu
"	
"	
Waldwick	
WashingtonJenkins-Meeker, Druggists.	
"	ł
Weehawken	•
"	
"	
"B. Stermick, Druggist.	
"	

WenonahBoard of Health.
Westfield
West Hoboken
"Joseph J. Parentini, Druggist.
" R. Steuer, Druggist,
West New York
" " "
West Orange
" " George J. Geiger, Druggist.
Westville
WestwoodG. M. Levitas, Druggist.
" F. B. Palmer Co., Druggists.
"
Wharton H. W. Kice, Physician.
Wildwood
WilliamstownJ. G. Edwards, Physician.
"L. M. Halsey, Physician.
Woodbine I. P. Behrman, Physician.
Woodbridge R. A. Hirner, Board of Health.
" B. W. Hoagland, Physician.
" Ira T. Spencer, Physician.
Woodbury A. L. Marshall, Druggist.
" Merritt Drug Store, Druggists.
" W. H. Sutton, Druggist.
WoodstownJ. W. Hueston, Physician.
"
Wyckoff
" DE. Drake. Physician.

Report of the Division of Food and Drugs.

R. B. FITZ-RANDOLPH, Chief.

To the Board of Health of the State of New Jersey:

GENTLEMEN—I have the honor to submit the following report of the Division of Food and Drugs for the year ending October 31st, 1911.

The work of this division consists of investigations in the field and in the laboratory, having for their purpose the enforcement of the Food and Drugs Act (chapter 217 of the laws of 1907, and its amendments and supplements, which include the sanitary law of 1909, and the law relating to the production and distribution of shellfish), the laws regulating the sale of oleomargarine and other imitations of dairy products (chapter 84 of the laws of 1886, its amendments and supplements), the Slaughter House Act (chapter 295 of the laws of 1910), and the Cold Storage Act (chapter 169 of the laws of 1911). For the purpose of carrying out the provisions of these acts the division employs three chemists besides the chief, two food inspectors, a slaughter house inspector, a cold storage inspector, a laboratory assistant and two clerks. During the past year the work of the division has been greatly hampered because it has been impossible to fill vacancies in the force except after long delays, on account of the difficulty of inducing suitable persons to take the Civil Service examinations required. This is due, in part at least, to the salaries which are paid to the scientific assistants in the employ of the Board, which are so small as to be unattractive to the kind of men we need. The requirement of the Civil Service law making residence in the State a prerequisite to eligibility for examination also makes it difficult to get the kind of men we need. The supply of men properly trained in sanitary science is at present much smaller than the demand, and,

as there is no institution of learning within the State which gives adequate instruction in these branches, the supply of material we have to choose from is very scanty.

Our work has also been seriously interfered with by the construction during the year of a new office, store room and animal room for the laboratory. This necessitated the removal of the office of the division into one of the corridors where work was carried on under great difficulties. Further reference to the new office is made in the report of the Director of the Laboratory of Hygiene.

For several years the chief of the division has called attention to the fact that the force of inspectors was too small to properly police the State, and this is still the case. The inadequacy of this inspection force has been particularly embarrassing this year because of the great need for inspectors in the enforcement of the Slaughter House Act and the Cold Storage Act, as well as for the regular work under the Food and Drugs Act, which increases in amount and variety each year.

Since the passage of the Sanitary Act in 1909, which regulates the production, manufacture, handling and transportation of food, we have had numerous requests for assistance from officials of local boards of health who desired to enforce certain provisions of the act but did not know how to proceed. Unfortunately we were seldom able to render satisfactory service to these boards because we had no men to send to them, and more inspectors are imperatively needed for this purpose alone. The proper enforcement of the Sanitary Act cannot be accomplished by the State Board of Health with any force which it now has or is ever likely to have. Local boards have the same powers under it as the State Board, and it is upon them that we must rely for its enforcement, especially to that part of it which applies particularly to local conditions such as the cleaning up of grocery stores and meat markets and the supervision of similar local industries. fore the local boards can do effective work they need much assistance and instruction, and this instruction should be given by this division. If this plan could be adopted it would insure a uniform enforcement of the law throughout the State and a system of co-operation between us and the local boards which would result, not only in mutual benefit, but much more efficient protection of the citizens of the State against unclean and impure

food. In order that this plan may be satisfactorily carried out certain changes in the law are needed. Local boards of health are now empowered to enforce the food laws if they so desire. This enforcement by such boards should be made mandatory, and, for the purpose of securing uniformity of methods and procedure and proper action on the part of indolent and inefficient boards (of which we have too many in the State), the State Board of Health should be given some power of supervision over the work which these boards do in enforcing food laws.

In the report of this division for 1910 certain suggestions were made regarding legislation which is needed to enable us to do our work more expeditiously and economically, to fill in some obvious gaps in the food and drug laws, and to correct certain defects in our oleomargarine laws. Nothing was done by the Legislature last year in these directions, and attention is therefore again directed to these recommendations. An amendment to the food law providing a procedure for the seizure of goods found on inspection to be in violation of law is needed, as is also legislation which will adequately safeguard the preparation of horse meat for The need for such a law has been strikingly shown by the reference to the State Board of Health by the United States Department of Agriculture of certain facts which seemed to show that a firm operating a rendering plant in Kearny, N. J., were preparing for use as human food, in exceedingly unsanitary and objectionable surroundings, pickled horse meat made from horses which had died from disease. These facts were at once referred by the Board to the Attorney General and prosecutions were begun by him against the firm in question. These cases are still pending. The investigations of the Government inspectors showed that large numbers of horses, both alive and dead, were handled at this plant, and that during the year over one hundred barrels of the pickled product had been shipped abroad. preparation of horse meat for food in this country is a business which, because of the high price of sound horses, and the abundant supply of worn out and diseased animals, needs the most careful supervision, and, in the writer's opinion, should only be permitted under a special license and under the eye of a qualified State inspector; and it is recommended that an act be passed containing this requirement.

More specific legislation is also needed to regulate the traffic in inferior and decomposed eggs. Very large quantities of eggs are brought into the State each year, destined for the cold storage warehouses, and ultimately for the New York market. Such of these eggs as are broken or cracked in transit are either sold by the warehousemen, or broken and frozen in cans. eggs are removed from storage, and before they are sold, they are candled, and the rots, spots and other defective ones rejected, and these are sold to dealers who either make a business of breaking eggs or who sell the product in the shell to bakeries. frozen product is also used by bakers. It is no doubt true that eggs can be broken and frozen with a resulting product of good quality, but it is also true that this is seldom done in this State, the eggs which are broken being of a quality which would hardly be salable in the shell. The business, therefore, requires the strictest supervision, not only as to the character of the raw material, but also of the plant, equipment, and habits of the employes; and it is only by the exercise of such supervision that a satisfactory product can be assured. It is therefore recommended that an act be passed providing that no person shall engage in the business of breaking eggs, except under a license from the State Board of Health, and fixing a heavy penalty for operating without a license. It is also recommended that an act be passed requiring the labeling of all rots and spots so that they can be readily identified and traced. The traffic in rots and spots is assuming considerable proportions in this State, and, in so far as these are used in the manufacture of food stuffs, it should be stopped. During the year inspectors have had occasion to condemn and destroy large numbers of bad eggs in bakeries, which would have been used for food had we not prevented it.

More specific legislation is needed to regulate the manufacture and sale of soft drinks. The food law is so general in its terms that it is difficult under it to prevent the distribution of inferior and fraudulent material of this kind. The use of artificial colors should be either prohibited or carefully restricted in this class of goods, and artificial sweeteners should be specifically prohibited. Inspections in years past of many places where these goods are manufactured, show that most of them are not properly equipped or managed, and in some conditions are so bad that the product is inevitably seriously contaminated. The smallness of our inspec-

tion force makes it difficult to exercise proper supervision over them. It might be well to provide for licensing them, either by the State or local boards of health. This would result in the elimination of many of the worst ones and more supervision over those which survive.

Some supervision over the slaughter of animals intended for use as food is badly needed in this State. The investigations of our slaughter house inspector have produced abundant proof that a great many diseased animals, which are unfit for food, are slaughtered for that purpose each year. New Jersey is a heavy producer of milk, and therefore, large numbers of worn out, injured or diseased dairy animals go to the butcher annually. large proportion of these cows would not be passed for food in slaughter houses having federal inspection, and they are, therefore, killed in places not under Government supervision, and are all disposed of within the State. The only remedy for this condition is to provide for a State system of meat inspection which will be a difficult and costly procedure, and will introduce radical changes in our methods of operating slaughter houses, but the need is great, and some legislation along this line is earnestly recommended. More specific legislation relating to the sale of immature veal is also desired. Proof of violation of the present law is being evaded by certain unscrupulous dealers who have discovered its weakness. The traffic in immature veal is heavy in this State, although during the last year a determined effort has been made to check it with good results in some sections.

Some specific legislation should be adopted, fixing a standard for lard, and defining the various compounds and imitations which are sold for lard. A good deal of adulterated lard is sold unlabeled, and the requirements of our food law are such that there is much difficulty in obtaining satisfactory analytical data on these substances to make proof of violation of the law. Section 14, relating to the washing of cans and utensils before returning them to the shipper, should be cured of its present defects and broadened to include all bottles, cans and receptacles which have been used for holding milk, whether such containers are shipped or not.

In last year's report the need of some method of bringing the work of this division to the attention of the public was mentioned, and it was recommended at that time that a monthly bulletin be issued for general distribution, in which would be published information gathered by this division regarding impure food and drugs, and such other matter relating to the work of the Board as is of public interest. Such a bulletin would serve to interest as well as educate the public and would be a powerful factor in checking many fraudulent and dangerous practices which now continue because the public are not informed regarding them. Up to the present time no bulletins of this character have been issued, and it is recommended that such a publication be made during the coming year, and that specific legislative authority be obtained authorizing the Board to publish the results of inspections, and of special investigations, and also the result of all successful prosecutions. New Jersey is far behind most of the other States in this respect. Many of the States where much less work is done toward enforcing food laws, put forth readable and instructive bulletins at regular intervals, and so enable their citizens to derive the benefit of the State's work which properly belongs to them. Scarcely a day passes during which letters are not received from points, not only in this State, but all over the United States and abroad, requesting copies of the bulletin which the more progressive residents of other States assume as a matter of course that we publish, and one of the most unpleasant duties the writer has to perform in making reply to these inquiries, is to state that we have no bulletin to send to them and no other method of telling them what we are doing.

During the year 7,260 samples of food and drugs were examined, an increase of 725 over the previous year. Table 1 shows the number and kinds of samples examined.

TABLE 1.—SHOWING THE NUMBER AND KINDS OF SAMPLES EXAMINED DURING THE YEAR 1911.

Articles examined.	Above Standard.	Below Standard.	Total.
Milk and cream	3,053	291	3,344
Foods other than milk	1,613	2,094	3,707
Drugs	126	83	209
Totals	4,792	2,468	7,260

The following tables show in detail the number of samples of foods other than milk and cream which were examined during the year:

TABLE 2.—GIVES A DETAILED STATEMENT REGARDING THE FOODS EXAMINED DURING THE YEAR.

DURING III.	e iman.		
	Number	Number	Total
	above	below	number of
•	Standard.	Standard.	Specimens.
Allanda annual	79		79
Allspice, ground		40	99
Butter	51	48	=
Candy	1	• • • •	1
Cheese	1	• • • •	1
Cinnamon, ground	70	1	71
Cloves, ground	81	• • • •	81
Cocoa	14	• • • •	14
Coffee, ground	3	• • • •	3
Color, paste	1	• • • •	1
Condensed milk	3	• • • •	3
Condiments	1	• • • •	1
Eggs, broken	• • • •	5	5
Eggs, shell	100	1,9 44	2,044
Extract, almond	2	• • • •	2
Extract, lemon	4	4	8
Extract, orange		1	1
Extract, vanilla	4	1	5
Fer-mil-lac	1		1
Ginger, ground	99		99
Honey	3	1	4
Ice cream	131		131
Ice cream powder	1		1
Lard	6		6
Mace, ground	68	1	69
Malt hop beer	2		2
Maple syrup	2	1	· 3
Meat, beef		3	3
Meat, chopped		1	1
Meat, pickled		1	1
Meat, pork		1	1
Meat, veal		24	$2\overline{4}$
Molasses	89		89
Mustard, ground	64	1	65
Nutmeg, ground	5		5
Oleomargarine	24	13	37
Olive oil	25	8	33
Orange juice		1	1
Oysters	40	7	47
Paprika	2		2
Pepper, black	200		200
Pepper, red	39		39
Pepper, white	77	••••	77
Pop corn	1	••••	i
Preservaline	i		î
Saltneter	î	• • • •	1
Sausage	3	2	5
Vinegar, cider	245	22	267
Vinegar, compound	1		1
Vinegar, spirit	3		3
Vinegar, white	65	3	68
vanchar, warte			
Totals	1,613	2.094 itize	ad by 3,00 3 le

TABLE 3.—SHOWS, THE NUMBER AND KIND OF DEUGS EXAMINED DURING THE YEAR.

	Number above . Standard.	Number below Standard.	Total number of Specimens.
Aqua hamamelidis		1	1
Linimentum camphoræ	1	1	2
Liquor potassii	2	16	18
Oleum olivæ	8		8
Potasii bitartras	69		69
Saxonite	1		1
Sodii boras	2		2
Spiritus camphoræ		15	15
Spiritus menthæ virdis	7	18	25
Sulphur præcipitatum	8	1	9
Syrupus ferri iodidi	2	3	5
Tinctura iodi	22	25	47
Tinctura opii	4	3	7
Totals	126	83	209

MILK AND CREAM.

The results of the examination of the samples of milk and cream collected during the year are shown in the following table:

TABLE 4.-MILK AND CREAM EXAMINED.

Milk below standard with respect to solids	178
Milk containing added water	73
Milk containing preservatives	
Skimmed milk sold in containers not properly marked	6
Cream below the legal standard with respect to fat	21
Cream containing thickening agents	9
Condensed skimmed milk sold in containers not properly marked	3
Total	291

It is noteworthy that only one sample of milk or cream was found which contained preservatives. The practise of adding chemicals to milk to prevent souring has almost ceased, owing to the relentless prosecution of offenders in years past, and also on account of more cleanly methods of production, better methods of transportation, and the more extended use of commercial pasteurization.

During the year the milk standard was reduced by the Legislature from 12 per cent. total solids to 11.50 per cent. This was done at the request of large numbers of dealers, especially in the northern part of the State, who claimed that their herds would not produce milk at certain seasons of the year which would meet the requirements of the law. This is undoubtedly true of some herds in this State, but most of our dairy cattle will give milk far in excess of the legal requirements, and, in the opinion of the writer, the reduction of the standard was a step in the wrong di-What should have been done was not to reduce the standard, but to improve the quality of the dairy cattle in the State. During the last ten years the character of our dairy herds has greatly changed, and the quality of the milk has also changed, and for the worse. Too little care is taken by our milk producers in selecting stock for dairy purposes. Many of our dairymen never raise a calf, preferring to constantly buy cows which they milk for a few seasons and then sell them to the butcher. A large proportion of these cows are bought in New York State and elsewhere, and many of them are unfit for market milk production. If our farmers would take the trouble to raise their own calves from parents of proven worth, the dairy business in this State would be much more profitable than at present, and not so much clamor would be heard about the difficulty of meeting the legal requirements for milk.

It appears that gelatin is being used to some extent as a thickener for cream. Nine samples were examined which contained this substance. The use of gelatin or other thickeners in cream is a fraud, and all persons selling such mixtures are prosecuted. Condensed milk is also used in admixture with cream, usually in the manufacture of ice cream, but sometimes some of this product finds its way to market as cream. This is also a fraud, particularly easy of detection, and every effort will be made to stop it.

During the year a study was begun of the transportation of milk by rail in the southern part of the State. It was quickly learned that the railroads are not supplying the milk shippers with facilities with which to get their milk to market in proper condition. This is particularly true of milk which is sent to summer resorts along the shore. In some cases milk is carried on trains for upwards of five hours in midsummer without any refrigeration whatever, and this undoubtedly results in a serious deterioration in its purity and wholesomeness, and is, therefore, in violation of the sanitary law. An effort will be made during the coming year to induce the railroad companies to provide refrigerator cars for the transportation of milk during the summer months. This is now done on those railroads which haul milk to New York City, and there is no reason why it should not be done by all. The transportation of milk in small lots by express companies in express cars is also almost always done under conditions which injure the milk in warm weather, and the matter will also be taken up with the express companies during the year.

BUTTER AND OLEOMARGARINE.

During the year a number of samples of butter were collected which were found to have been adulterated by the admixture of undue amounts of water, in one instance as much as 35 per cent. of water having been found. This adulteration is practised mostly by small dealers who buy tub butter from the West and rework it, incorporating therein as much water as their skill will permit. Butter containing over 16 per cent. of water is adulterated under the State standard, and fraud of this character will not be tolerated.

The high price of butter has resulted during the year in unusually large quantities of oleomargarine being sold. Oleomargarine is a healthful and nutritious substitute for butter, and there is no objection to its sale when sold according to law. The law is being systematically evaded, however, by many dealers who obtain a larger profit by selling it for butter. Some of the devices they resort to in their efforts to escape detection are very ingenious. Much oleomargarine is sold by peddlers who go from house to house and who have no regular place of business. These individuals carry their goods properly marked, according to law, in their wagons, but remove these markings before delivery to the customer. Certain storekeepers made a practise of refraining from notifying the customer that the substance purchased is oleomargarine, which is required by law, and place the legal markings on the bottom of the package where they cannot be readily seen by

the purchaser. Many tons of oleomargarine are sold for butter in this fashion every year, and it is very difficult to secure convictions in cases brought for violations of this character, our courts apparently regarding this kind of an offense as trivial, and refusing to convict for it; but it is not a trivial offense, but a studied and deliberate method of evading a wise and beneficent law for the sake of increased profit. This practise could be stopped if every package of oleomargarine exposed for sale was required to be labeled so that the customer could see the label, and such an addition to the oleomargarine law is urged. Much deception is practised by restaurant and hotel-keepers by serving oleomargarine on their tables in place of butter. Our law is somewhat weak on this point, and should be strengthened.

VINEGAR.

During the year a large number of samples of vinegar have been examined and most of them were found to conform with the accepted standards for the various kinds. It is quite certain, however, that there are numerous skillful imitations of cider vinegar on the market which yield figures on analysis so close to the figures obtained from genuine cider vinegar, that the analyst cannot feel that he has proof of adulteration, although he is certain that something is wrong. The analytical difficulties in the way of detecting these sophistications are formidable, and the dealers in this class of goods have become exceedingly skillful in their manufacture of preparations which seem to be compounded expressly to deceive the chemist.

Attention should be called to the analysis of 131 samples of ice cream reported in table 2. We have no standard for ice cream in this State, and it was necessary, therefore, to classify all these samples as above standard, although they varied widely in composition. No deleterious substances were found in them.

Table 5 shows the places visited by our inspectors during the year, and the number of visits to each place:

TABLE 5.—SHOWING THE PLACES VISITED BY INSPECTORS AND NUMBER OF VISITS TO EACH PLACE.

	_	•	
Aldine	3	Dover	15
Allamuchy	1	Dumont	1
Allenhurst	1	East Newark	2
Alloway	3	East Orange	2
Andover	4	East Rahway	1
Anglesea	1	Eatontown	2
Annandale	4	Egg Harbor	1
Asbury Park	$ar{2}$	Elberon	ī
Atlantic City	$1\overline{3}$	El Dora	î
			_
Atlantic Highlands	1	Elizabeth	16
Avon	1	Elizabethport	1
Augusta	2	Elmer	4
Barley Sheaf	1	Elmwood Rd	1
Bayonne	12	Englewood	3
Bay Way	1	Englishtown	1
Beaver Run	1	Everittstown	2
Belmar	2	Fairfield	1
Belvidere	$ar{f 2}$	Fairlawn	$ar{2}$
Bergenfield	ī	Fairton	$\tilde{2}$
Berlin	i		$\tilde{2}$
	i	Flagtown	5
Bernardsville	_	Flemington	
Beverly	2	Florence	2
Blackwood	2	Franklin Furnace	5
Blairstown	2	Freehold	1
Blenheim	1	Garfield	1
Bloomfield	1	Garwood	1
Bogota	1	Gibbstown	2
Boonton	6	Glassboro	5
Bordentown	š	Glenwood	ž
Bound Brook	í	Gloucester	5
	î	Greenwich	ĭ
Boynton Beach	3		1
Branchville		Groveville	
Bridgeton	14	Hackensack	1
Broadway	2	Hackettstown	3
Brotzmanville	1	Haddonfield	5
Burlington	6	Haddon Heights	3
Butler	1	Hainesburg	3
Caldwell	3	Hamburg	. 3
Camden	109	Hammonton	`2
Cannel	1	Hampton	2
Cape May	$\tilde{2}$	Hancocks Bridge	ī
Cape May Court House	ī	Harmersville	$\dot{2}$
Cedarville	$\hat{f 2}$	Harrington Park	ĩ
	1		1
Chatham		Harrison	
Clayton	3	Harrisonville	1
Clifton	2	Hightstown	2
Clinton	4	Hilton	2
Closter	1	Hixson	1
Collingswood	\mathbf{s}	Hoboken	20
Columbus	1	Holly Beach	4
Communipaw	1	Hopatrong	1
Cranbury	$\tilde{3}$	Hope	ī
Cranford	ï	Hopewell	î
Crosswicks	1	Howarth	i
	3		5
Daretown		Irvington	
Deerfield	4	Island Heights	1
Delanco	1	Jamesburg	1

TABLE 5.—SHOWING THE PLACES VISITED BY INSPECTORS AND NUMBER OF VISITS TO EACH PLACE—Continued.

T 01.	^-	
Jersey City	97	Oxford Furnace 1
Jutland	2	Palmyra 3
Kearny	1	Passaic 11
Keyport	1	Passaic Park 1
Lafayette	10	Paterson
Lambertville	1	Pattenburg 1
Laurel Springs	5	Paulsboro 1
Lebanon	ĭ	Pemberton 2
Leesburg	ī	Pennington 1
Lewistown	ī	Penns Grove
Little Falls	2	Perth Amboy 3
Little Ferry	ĩ	
Lodi	i	
	3	
Long Branch		
Lumberton	1	Pleasantville
Madison	5	
Magnolia	1	Port Reading 1
Manasquan	1	Prospect Plains 1
Marksboro	1	Quarryville 2
Marlboro	1	Quinton 1
Martinsville	2	Raritan 1
Matawan	4	Raven Rock 1
Maurer	1	Ridgefield Park 1
Mays Landing	4	Ridgewood 1
McAfee	2	Riegelsville 1
Medford	$\overline{2}$	Riverside 4
Mendham	$\bar{2}$	Riverton 3
Merchantville	4	Rockaway 1
Metuchen	$\hat{2}$	Roebling 4
Milford	$\tilde{2}$	Roselle
Millburn	$\tilde{2}$	Rosemont 2
Millville	2 9	
	1	
Monmouth Junction		
Monroeville	3	Salem
Montgomery	1	Sea Bright 2
Montville	1	Secaucus 1
Moorestown	2	Sergeantsville 2
Morristown	20	Sewaren 1
Mount Holly	4	Sharptown 3
Mount Pleasant	2	Shiloh 1
Mulford Station		Shirley 1
Neshanic	4	Shrewsbury 2
Netcong	1	Somers Point 1
Newark	73	Somerville 2
New Brunswick	4	South Orange 4
New Egypt	1	Spottswood 2
New, Dunham	1	Spring Lake 1
Newport	1	Stanhope 1
Newton	$1\overline{9}$	Stewartsville 1
Norma	2	Stockton 2
North Branch	4	Summit 8
North Newark	i	Sussex 7
North Vineland	i	Swedesboro
Norwood	1	Teaneck 1
	1	
Oaklyn		
Ocean City	2	
Ocean Grove	2	Three Bridges 3
Orange	17	Toms River 1

TABLE 5.—SHOWING THE PLACES VISITED BY INSPECTORS AND NUMBER OF VISITS TO EACH PLACE—Continued.

Tranquility	1	West Englewood	1
Tremley	1	Westfield	1
Trenton	60	West Hoboken	3
	w		•
Troy Hill	1	Westmont	2
Union Hill	8	West New York	1
Vienna	2	West Norwood	1
Vincentown	1	West View	1
Vineland	2	Westville	3
Wallpack Centre	1	White House	2
Warbasse	$ar{f 2}$	Wildwood	4
Washington	4	Williamstown	2
TTT 1	_		
Washington Valley	2	Woodbine	Z
Weehawken	3	Woodbury	8
Wenonah	4	Woodstown	9
West Belmar	1	Wrightstown	1
West Collingswood	2	Yardville	2
West End	1	Yorktown	1

The number of the inspections made in these places, and the kinds of places visited, arranged by months, is shown in table 6:

TABLE 6.—SHOWING THE NUMBER AND KIND OF PLACES VISITED BY THE INSPEC-TORS DURING THE YEAR FOR THE PURPOSE OF COLLECTING SAMPLES AND GATHERING INFORMATION REGARDING SANITARY CONDITIONS.

	Milk $Wagons.$	Milk Depots.	Grocery Stores.	Drug Stores.	Milk Cans.
November	257	16	175		318
December	157	43	341	10	24
January	153	55	453	15	4
February	217	44	303	11	400
March	194	31	113	4	400
April	141	46	333	15	
May	259	69	310		
June	212	65	471	21	67
July	205	56	279	16	73
August	173	67	284	13	
September	47	14	102	2	68
October	230	44	315	7	400
Totals	2,245	550	3,479	114	1,754

	Slaughter Ho uses .	Meat Markets.	News Stands.	Canning Factories.	Cold Storage Plants.
November	11	2		• • •	
December	1	8			
January	20		• • •	• • •	• • •
February	19	16	26		4
March	25				
April	• • •	3			
May	9	18	• • •		
June		4			1
July	37	• • •			
August	43	, 8			3
September	13	3		41	
October	24	6	٠	• • •	38
Totals	202	68	26	41	46

	Bottling C	onfectionery		Butter	Miscellaneous
	E stablishments.	Stores.	Bakeries.	Stores.	Inspections.
November					5
December			• • •		16
January					4
February	4	4			
March	• • •	3	• • •		14
April	• • •	6			9
May		4			6
June	1	8	9		2
July	• • •	2		16	4
August	2				16
September	3		6		20
October	• • •	• • •	2	•••	2
Totals	9	27	17	16	98

- During the year almost all of the canning factories in the State were carefully inspected for the purpose of securing information which might lead to improvement in the conditions known to exist in some of them. A description of these inspections will be found elsewhere in this report.

Examination of empty milk cans, made during the year, shows great improvement in the condition of these cans as returned to the shipper. In almost all cases they were found to have been washed and were in a satisfactory state of cleanliness. Some few dealers are still violating the law by shipping dirty cans, but the number of such violators is small, and we hope to stop this practise entirely during the coming year.

Much important work has been done toward cleaning up our slaughter houses, and, considering the short time the slaughter-house license law has been in effect, much has been accomplished in securing better conditions. An account of this work will be found elsewhere in this report.

The column headed "Miscellaneous Inspections," in table 6, refers to a variety of investigations somewhat outside of our regular work, most of which were undertaken at the request of local boards of health. Requests for assistance of this sort from local boards of health are rapidly increasing in numbers, and nothing but the smallness of our inspection force prevents us from complying with many more of them.

Our inspectors are all men of experience in the examination of food and drugs, and as a rule only collect samples for analysis when they have some reason to suspect that the law is being violated. Large numbers of articles are examined each year from which no samples are taken, because it is found that they are obviously in compliance with the law. The following table shows the number and kind of these inspections:

TABLE 7.—SHOWING THE NUMBER OF ABTICLES EXAMINED BY INSPECTORS DUR-ING THE YEAR WHICH WERE EVIDENTLY IN COMPLIANCE WITH THE LAW AND OF WHICH NO SAMPLES WERE TAKEN.

	Milk.	Butter.	Food.	Drugs.
November	568	317 '	20	12
December	514	599	600	195
January	237	687	695	200
February	509	689	867	375
March	298	136	275	70
April	392	499	629	205
May	444	34 5	556	145
June	522	442	582	140
July	631	302	604	165
August	520	282	604	130
September	102	114	244	50
October	592	311	547	105
Totals	5,329	4,723	6,223	1,692

COLD STORAGE.

During the year 1910 some agitation arose in the State, principally in Hudson county, regarding the alleged improper practices of persons there engaged in the cold storage of foods. A considerable amount of newspaper notoriety was given to the subject and statements were made of such a character as to arouse the suspicion of the public that the cold storage of foods was attended on the one hand by serious deterioration in their quality and even in their wholesomeness, and on the other, by a very large increase in the cost of food so stored, as compared to that of similar foods of the same character which had not been placed in storage, it being stated that the facilities for storage of perishable foods which these warehouses afforded, enabled speculators to increase the cost of such foods, by storing them for long periods of time and creating an artificial scarcity, resulting in high prices. agitation was not confined to New Jersey alone, but developed in other parts of the country as well. In order to rectify this condition a bill was introduced in the Legislature of 1910 which had for its object the regulation of cold storage warehouses. This bill fixed a time limit of six months, beyond which foods might not be legally stored, and also provided that foods which were placed in storage must be marked with the date of storage. first presented to the Legislature was very defectively drawn, and if enforced, would have inflicted much hardship on the cold stor age industry without securing an adequate return to the public. Representatives of the cold storage industry in this State vigorously opposed this legislation at several hearings which were held upon the bill, and it failed to pass.

In 1911 a very similar bill was introduced which was also defective in its provisions, and this bill was likewise opposed by representatives of the cold storage industry as well as by other persons who believed in the proper regulation of cold storage, but who were convinced that such regulation would not be accomplished by the bill under consideration. The bill was finally changed in a number of particulars and passed the Legislature, and on April 21, 1911, was signed by the Governor.

This law provides that articles of food may not be placed in cold storage unless the date of entry is marked upon the article or

upon the package containing it, and that articles of food which have been placed in cold storage in other States may not be put in storage in this State unless the original date of entry into storage is marked upon the food or upon the container. It is provided, however, that articles of food which have beeen stored in other States may be stored in this State without the date of original entry into storage if consent for such storage is obtained from the State Board of Health, and it is also provided that no foods may be stored for a longer period than ten months, unless consent for such longer storage is obtained from the State Board of Health. The Board is given power and authority to inspect and supervise all cold storage establishments in the State, and is also empowered to make rules and regulations for the control of such establishments and for the protection of the foods kept therein. further provides that persons operating cold storage warehouses shall submit quarterly reports to the State Board of Health on or before the 25th of January, April, July and October, showing all articles of food held by them in cold storage on those dates. Articles of food which have been held in cold storage for periods longer than ten calendar months without consent of the State Board of Health, shall be sold at auction unless they are found to be in a condition which renders them unfit for use as food, in which case they shall be condemned and destroyed. The transfer of foods from one warehouse to another for the purpose of evading the requirements of the act is prohibited. Foods which have been held in cold storage and removed therefrom and exposed for sale are not permitted to be replaced in cold storage. Violation of any of the provisions of the act is punishable, for the first offense, by a fine not exceeding five hundred dollars. violation of the act constitutes a misdemeanor and is punishable by a fine or imprisonment, or both.

In accordance with the provisions of section five of the act above referred to, the State Board of Health adopted regulations for the government of cold storage warehouses. These regulations were necessarily more or less tentative in character, and it will probably be necessary to alter them in several particulars and to extend them so that they will more fully cover the ground. These rules and regulations are as follows:

RULES AND REGULATIONS.

- 1. For the purpose of enforcing this act the term "cold storage" will be held to mean the storage of foods, intended for sale or distribution. in establishments employing refrigerating machinery or ice for the purpose of refrigeration. for a period exceeding thirty days, at or below a temperature of forty degrees Fahrenheit; and the term "cold storage warehouse" will be held to mean any establishment employing refrigerating machinery or ice for the purpose of refrigeration. in which foods intended for sale or distribution are stored at or below a temperature of forty degrees Fahrenheit for a longer period than thirty days.
- 2. Articles which are held at low temperatures for temporary protection only, for periods less than thirty days, will not, for the purposes of this act, be regarded as being held in cold storage, and such articles need not be dated, but such articles must be kept in separate rooms or enclosures from which articles are kept in cold storage, and persons operating cold storage warehouses must keep an accurate record of the date of receipt and removal of such articles, which record shall at all times be open to inspection by agents of the State Board of Health; provided, however, that if articles of food which have been kept at a low temperature for temporary protection are held for more than thirty days at such low temperature, they shall then be regarded as having been placed in cold storage, and shall be marked, in the manner provided in rule four, with the day, month and year when the period of temporary protection began, and such articles shall be removed from the room or enclosure in which articles temporarily protected are kept, and shall be placed in rooms or enclosures used for cold storage.
- 3. Articles of food intended for cold storage shall, when they are offered for or placed in storage, be enclosed in boxes, barrels, crates or other packages sufficiently strong and tight to prevent them from being injured by careless handling, unless the articles are of such a character that it is impracticable to pack them in containers.
- 4. When articles of food contained in packages are placed in cold storage each package shall be legibly marked in plain figures, not less than three-eighths of an inch in height, with the day, month and year when such articles were placed in storage, and when articles of food not contained in packages are placed in cold storage, each individual article shall be marked in the same manner. Figures separated by hyphens may be used to indicate dates, and it will be regarded as sufficient dating if the last two figures of the number denoting the year when such articles of food were placed in cold storage are used. For example: June 26th, 1911, may be written:

6-26-11.

Whenever tags or labels are used on which dates are to be marked, they must be securely fastened to the articles to which they are affixed.

- 5. Articles of food held at low temperatures during the process of manufacture will not be regarded as being held in cold storage within the meaning of this act, and such articles need not be dated.
- 6. When articles of food have been kept in cold storage for ten calendar months, report of such fact shall be made to the State Board of Health by the persons having custody of such articles, and such articles shall be held in cold storage by such persons until they have been inspected by the agents of the State Board of Health and released by order of the Board.
- 7. Upon receiving applications therefor, the State Board of Health will issue temporary consent to persons operating cold storage warehouses, permitting them to receive articles of food which have been in cold storage in

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other states, but which do not bear the dates of entrance into such storage; which consent shall be good only until such articles have been inspected by agents of the State Board of Health. If upon inspection it is found that such articles are in proper condition for further storage, and if it appears that the person having custody of them has been unable to ascertain the date on which they were placed in cold storage in another state a permanent consent for the storage of such articles may issue. If it is found that such articles are in such a condition that further storage will impair their purity, quality or wholesomeness, permission for further storage will be refused.

- 8. For the purpose of facilitating the removal of articles of food from cold storage before the expiration of the statutory period of ten calendar months. persons operating cold storage warehouses shall notify the owners of all articles of food stored by them of the date when such articles will have been in storage ten months, at least fifteen days before such ten months have elapsed.
- 9. Until further notice, the following classification of foods will be used by persons operating cold storage warehouses and refrigerating plants in making quarterly reports of articles of food held in cold storage:

Eggs, case.
Eggs, broken.
Butter.
Cheese.
Poultry.
Game.
Meat. fresh.

Meat, salted, smoked or pickled.

Fish (including shell-fish), fresh. Fish, salted, smoked or pickled. Dried fruits.

Dried fruits.
Nuts.
Green fruits.
Green vegetables.
Miscellaneous.

Shell eggs are to be reported in terms of cases and dozens; all other articles to be reported as packages, and, in so far as the same is practicable, by weight. Articles not intended for use as food products are not to be reported.

10. Requests for permission to store food for a longer period than ten calendar months must be made by the owners thereof to the State Board of Health, upon blanks which will be furnished by the Board upon application. No such request will be considered by the Board unless a satisfactory reason. stating why such extension of storage is desired, is given.

Before such requests are granted the articles of food to which they refer must be inspected by an agent of the Board. Requests should therefore be made at least two weeks before the statutory time limit for storage has expired.

- 11. No materials in a state of decomposition or putrefaction, or in any other condition which renders them unfit for use as food, shall be placed in cold storage in the same room or enclosure with articles intended for use as food.
- 12. When articles of food, held in cold storage, are removed from the packages in which they were contained and placed in other packages, the date of original entry into cold storage of such articles shall be placed upon the containers into which they have been transferred; and if articles of food which were placed in cold storage on different dates are packed in the same container, the date of storage of the article longest stored shall be placed upon the container to which such articles have been transferred.

In preparing these rules the Board was at once confronted by the very difficult task of attempting to adapt an imperfect and hastily drawn law to the varied requirements of a very complex industry. No one who has not made a special study of this in-

dustry can realize either its importance to our modern civilization or the extraordinarily diverse conditions which any law attempting to control it must take into consideration. It will not be seriously contended by any one that the proper cold storage of foods is an industry which should be either suppressed or even The preservation of foods by cold storage is a perfectly proper and legitimate industry when carried on in a proper manner, and results, in the case of perishable foods so stored, in the extension of a short natural season to a much longer artificial one, thus assisting in the conservation of large quantities of useful material which would otherwise be wasted, and satisfying the demands of the market for certain foods all the year round. preservation of foods has been practised in various ways for thousands of years, and cold storage is undoubtedly the best method of preserving certain kinds of foods which is at present available. The purpose of any proper legislation, therefore, is not to check or suppress any legitimate phase of the industry, but to correct certain abuses which have arisen chiefly because proper regulation has been lacking.

The first problem which presented itself was to ascertain what was meant by cold storage within the meaning of the law. act does not define cold storage, and it therefore became necessary for the Board to incorporate a definition in its rules. This definition is necessarily arbitrary, but it was so drawn as to cover what is ordinarily understood as "cold storage;" the storage of foods for considerable periods of time at low temperatures, and to exclude that merely incidental storing of foods at low temperatures for a limited time, which is done by almost every person engaged in the production, distribution or handling of perishable foods. This kind of storage cannot be effectively regulated by the State Board of Health unless an enormous increase in the number of our inspectors is made, and a careful reading of the act will make it clearly evident that such storage was not contemplated when it was drawn. The time fixed, thirty days, is sufficiently long to cover any proper period of temporary protection, and the temperature adopted is below that ordinarily maintained in refrigerators cooled by ice alone. Before this rule was adopted a similar one was put in force by the State Board of Health of Indiana, and one which is substantially the same has been promulgated by the Commissioner of Health of New York State.

In order to make it possible to control the holding of goods for

temporary protection in warehouses where cold storage, as defined in rule 1, is practised, rule 2 was adopted. It will readily be seen that unless undated goods are kept separate from dated ones no method of inspection will serve to show whether the requirements of the law relating to dating are being carried out. It has been found, however, that the warehousemen prefer to date all their goods rather than to provide separate enclosures for undated articles.

The necessity for rule 3, which provides that articles must be enclosed in containers whenever practicable, is obvious. Most articles cannot be properly protected unless packed in some kind of a container. The only difficulty which has arisen with respect to the enforcement of this rule is in the case of the storage of fish. It is the custom in some establishments to freeze fish and store them loose in piles, and the warehousemen maintain that this is a satisfactory method of storage, and that the cost of stored fish would be materially increased if it became necessary to box them. The loose storage of fish, however, is of doubtful propriety and is a problem which will have to be dealt with in the future.

It has been contended that rule 4 relating to the manner of marking the date of storage upon goods should have been so drawn as to require that the words "Placed in cold storage" should precede the date in order that when the package upon which this date is marked will show that it has actually been so stored. That this would be desirable there can be no doubt, but there is nothing in the act giving the Board power to make such a regulation, so that it could not have been enforced if made.

One of the great difficulties of the act has been the provision requiring goods which have been in cold storage outside the State to bear the date of original storage before they can be placed in storage in New Jersey, unless permission to store these goods is first granted by the Board. This provision is unenforceable. An inspector in New Jersey cannot find out whether eggs coming from the west have been in storage there or not. He may be morally certain that they have, but it is impossible of proof. Moreover, many of these articles which have been stored in States where dating is not required have passed through several hands before they reach New Jersey, and their past history cannot be ascertained. Foods of this sort are shipped for storage to this State in immense quantities, and, if the State Board of Health refused to permit these goods to enter the warehouses here until a consent had been

issued on each lot, so much delay would necessarily occur as to result in the loss of many thousands of dollars worth of good food by spoilage each year.

In order to meet this difficulty rule 7 was prepared. This provides for the issuing of a temporary consent to recover undated articles, good for a period of one month, and valid only until the goods have been inspected. Owing to the smallness of our force it has not been possible to inspect all the articles admitted in this manner, and it is evident that not all the warehousemen are complying with this rule. This provision of the act should be repealed.

Rule 12 was adopted to cover certain practises which obtain in some of our warehouses where apples and other similar fruits are stored and which are graded and sorted in the warehouse, and are therefore removed from their original containers. The meaning of the rules not specifically referred to is believed to be sufficiently clear to obviate the necessity for further comment.

In attempting to enforce the provisions of this act this division was greatly hampered by the delay which occurred in procuring the services of a suitable inspector. Application was made to the Civil Service Commission soon after the act was passed, for an assistant in the Division of Food and Drugs whose duties should consist principally in the inspection of cold storage plants. examination was held, open to citizens of the State, but no one succeeded in passing this examination, and it, therefore, became necessary to hold a second examination, open to all citizens of the United States. As a result of this examination one person was found who was able to meet the requirements of the Civil Service Commission, and of the Board, and he was appointed, his appointment taking effect October 1st. Before this time no regular inspector was available to investigate cold storage conditions in this A considerable number of inspections were made by other employes of the Division of Food and Drugs and much valuable information was obtained, but this inspection was necessarily fragmentary in character, and not much progress in regulating the industry was made.

During the year almost all the cold storage plants in the State have been inspected, many of them a number of times. A table showing the names and locations of these plants, together with the kinds of foods stored, the capacity of the warehouses, the method of refrigeration and the condition of the warehouses at the time of inspection, follows:

TABLE 8 - SHOWING THE NAMES AND LOCATIONS OF COLD STORAGE PLANTS, THE KINDS OF POODS STORED, THE CAPACITY OF THE WARE-HOUSE. THE METHOD OF REFRIGERATION AND THE CONDITION OF THE WAREHOUSE AT THE TIME OF INSPECTION.

Condition of Farehouse.	Cood. Cood.
	Direct brine Indirect brine Indirect brine Indirect brine Direct
Capacity of warehouse.	1,500,000 G. H. H. 1,500,000 G. H. H. 1,500,000 G. H. H. 1,500,000 G. H. H. 1,500,000 G. H. H. 1,500,000 G. H. H. 1,500,000 G. H. H. 1,500,000 G. H. H. 1,500,000 G. H. H. 1,500,000 G. H. H. H. 1,500,000 G. H. H. H. 1,500,000 G. H. H. H. 1,500,000 G. H. H. H. 1,500,000 G. H. H. H. 1,500,000 G. H. H. H. 1,500,000 G. H. H. H. 1,500,000 G. H. H. H. 1,500,000 G. H. H. H. 1,500,000 G. H. H. H. 1,500,000 G. H. H. H. 1,500,000 G. H. H. H. H. 1,500,000 G. H. H. H. H. 1,500,000 G. H. H. H. H. 1,500,000 G. H. H. H. H. H. 1,500,000 G. H. H. H. H. H. H. H. H. H. H. H. H. H.
chouses. Location. Foods stored. Capacity of Refrigeration.	All foods except fresh fish. Eggs, green fruits and meats. Eggs, green fruits and meats. Fresh meets All foods except fresh fish. All foods except fresh fish. Eggs, butter and fruits. Eggs, butter and potted meat. Apples and pears. Apples Apples Apples Apples Apples Apples Apples Apples Apples Meats. fruits Cheese and butter Cheese and butter Cheese and butter Cheese and butter Cheese and butter Cheese and butter Cheese and butter Cheese and butter Cheese and butter Cheese and butter (Not operating at this time). Kresh fish Meats and fruits Meats and fruits Meats and fruits Meats and fruits
Location.	Jersey City Jersey City Jersey City Newark Newark Newark Newark Newark Newark Newark Newark Newark Newark Newark Newark Burlington Riverton Swedesboro Woodstown Bridgeton Paterson Newark Manasquan Interson Interson Newark Manasquan Interson Inters
	Merchants Refrigerating Co. Eastern States Refrigerating Co. Union Terminal Cold Storage Co. North Newark Cold Storage Co. Newark Cold Storage Co. Newark Cold Storage Co. A. T. Connet Co. A. T. Connet Co. A. Herris Halms John Heppe Ice and Cold Storage Co. Woodstown Ice and Cold Storage Co. Woodstown Ice and Cold Storage Co. Bridgeton Condensed Milk Co. Bridgeton Condensed Milk Co. Henry Muhs Co. Bridgeton Condensed Milk Co. Henry Muhs Co. Con Gaskin Droste & Suyder Droste & Suyder Con Gaskin Holly Bench Cold Storage Co. (Con Gaskin Holly Storage Co. Honry Muhs Co. Honr

This table shows in the first place that very large quantities of food are stored during the year in this State, that the variety of articles so stored is also large, and that the sanitary condition of the warehouses is, on the whole, satisfactory. We have been unable to find any cold storage warehouse which was not in a fair condition, and in most of them the conditions were very good. Much care is taken by the warehousemen to properly control the temperature and humidity in the rooms in which storage takes place, and, as a rule, these rooms are kept clean.

In accordance with the provision of section six of the cold storage law, two sets of quarterly reports have been made by most of the warehousemen in the State. A few of these establishments have not submitted their reports for October. The following table shows the amount and kinds of foods which were in storage on the 1st of August and the 1st of October. The figures as here given are below the truth, as some warehouses have not reported, and it may be that there are some small warehouses in the State which we have not located, but it is believed that these figures very closely represent the real conditions which existed in the State at the time these reports were made.

TABLE 9.—SHOWING THE KIND AND AMOUNT OF FOOD HELD IN COLD STORAGE IN THIS STATE ON AUGUST 1 AND OCTOBER 1, 1911.

Articles.	Reported as.	August 1st.	October 1st.
Eggs	.Dozens	21,759,430	24,825,916
Eggs, broken	.Pounds	9,960	14,160
Butter	.Pounds	3,983,265	4,321,494
Cheese	·Pounds	107,727	139,824
Poultry	·Pounds	2,012,210	1,007,666
Meat, fresh	·Pounds	981,652	323,4 59
Meat, salted, smoked, pickled	.Pounds	503,200	751,308
Fish, fresh	·Pounds	805,500	1,279,190
Fish, smoked, salt	·Pounds	220,705	226,811
Fruits, dried	·Pounds	354,625	171,191
Nuts	.Pounds	307,589	217,922
Fruits, green	·Packages	6,097	50,545
Vegetables	·Packages	2,170	1,262
Oils, edible	·Barrels	16	40
Horse radish	.Barrels	4 3	18
Lard	·Pounds	8,620	2,000
Edible fat	·Pounds	4,560	6,600
Condensed milk	·Cases		3,228
Preserves	·Pounds		8,350
Miscellaneous	.Packages	9,558	4,845

In order that the various reports which the cold storage ware-housemen are required to make may be of uniform character and contain the information which is needed by the State Board of Health, blanks were prepared and furnished to them upon which to submit their quarterly reports, for the purpose of requesting permission to store goods which had been in storage without the State, but which did not bear the date of original storage, for requesting permission to store goods for periods longer than ten calendar months, and for the reporting of articles of food which have been left in the warehouses for periods longer than ten months.

In an opinion given by the Attorney General at the request of the State Board of Health, it was ruled that the ten months referred to in the act began ten months after the passage of the act. This time has not yet elapsed, and it is impossible to say what effect, if any, the requirement of the law restricting the limit of storage to ten months will have.

Our inspections have shown that the provision requiring the date of entrance into storage be placed upon the article or upon the container in which it is packed, has been observed in almost all cases by the cold storage warehousemen. The dates are usually stamped by means of a rubber stamp upon the crates, barrels, boxes or other containers which are used to hold foods. articles which are not stored in containers, such as sides of beef, or carcasses of veal or mutton, tags are generally used, which are attached to the carcasses by means of wire. The use of a tag seems to be more desirable than the practise of stamping the date directly upon the carcass where it is likely to become defaced by handling. In two fish warehouses in the southern part of the State, fish are frozen and stored in piles. These fish are not dated in compliance with the law, and it is somewhat difficult to devise a method of marking articles of this character which will not require radical changes in the method of storage.

Up to the present time no evidence has been gathered to show that foods which have once been exposed for sale have been returned to storage, but the time when this is most likely to happen, the period between Thanksgiving Day and the first of January, has not yet arrived. This practise is dangerous, resulting in a marked deterioration of the foods so handled, and every effort will be made to stop it.

No materials in a state of decomposition or putrefaction sufficiently advanced to be perceptible to the senses have been found in the cold storage rooms in which foods are stored, with the exception of one lot of poultry, consisting of five barrels, and one lot of canned eggs. These articles were condemned and ordered removed from storage, and were treated in such a manner that they could not be used for food.

Apples are frequently sorted before storage and at times after they are removed from storage. In both cases the containers into which such apples have been transferred bear the original date of entry into storage.

Eggs are frequently sorted at the large warehouses in the northern part of the State, upon arrival from the west, for the purpose of removing those which are broken or cracked. In such cases the refrigerating companies act as agents for the owners by securing an immediate sale for the broken or cracked eggs, or by breaking the eggs into cans for storage in the warehouse.

It is recommended that the Legislature be requested to modify the cold storage act in several particulars. Much more valuable information would be secured on the Board if the reports now required to be made quarterly were made monthly, and it is not believed that much additional labor would be imposed on the warehousemen. It is recommended that this change be made.

The plan of marking goods with the date of entrance into storage should be supplemented by a requirement compelling the marking of the date of removal, and a prohibition against the removal altering or defacing of such marks should be provided.

A provision such as is contained in the Indiana law, requiring the declaration of the fact that foods have been in cold storage when such are sold at retail should be added.

A provision requiring that all persons operating cold storage warehouses should be licensed, and fixing a reasonable annual license fee, should also be added.

Power should be given the State Board of Health to summarily close a warehouse if in their judgment it is necessary because of unsanitary conditions.

The present penalty section, which is cumbersome and probably so defective as to nullify the entire act, should be corrected, and proper penalties should be provided for violation of the rules adopted under the act.

It is further recommended that that portion of section 2 which requires goods stored in other states to be marked with the date of original storage be repealed. This provision cannot be enforced by State officials. Such a requirement as this can only be made operative by federal legislation.

INVESTIGATION OF OYSTER AND CLAM BEDS.

In the report of this division for 1910 reference was made to an act passed by the Legislature of that year, regulating the marketing of clams and oysters, with special reference to sanitary conditions on the beds in which they were grown. The enforcement of this act was entrusted to the State Board of Health, and that body was required to make inspections annually, or oftener, of every bed where clams and oysters were grown for sale, and was also required to issue certificates annually, setting forth the results of such examinations. It required but a short experience in attempting to enforce this act to demonstrate that it was faulty in many particulars. In the first place, its constitutionality was doubtful, owing to an obvious defect in its title. It was found that it was impossible to make an inspection of all the ovster and clam beds in the State within a year, especially as the Legislature failed to make any appropriation for enforcing the act. Oysters and clams grow along the entire length of our coast, from Newark bay to the Cohansey river, a distance of nearly two hundred miles, and most of this coast-line along the Atlantic ocean has behind it a tortuous network of bays and channels, so that the area to be covered is vastly greater than the actual coast-line would indicate. The oyster industry in this State is a very important one. About 10,000 persons are employed, and the value of the annual output is in the neighborhood of \$4,000,000. There are over 31,000 acres of leased ovster grounds in the State, besides which considerable numbers of oysters are taken each year from unleased The inspection and regulation of clam grounds is much more difficult than that of oyster beds, because they are not leased. No accurate information relating to them is available, and the clams from them are gathered by large numbers of individuals who are difficult to locate and control.

An act that is impossible of enforcement is of little value, and the Legislature was requested, at its last session, to change this one in several particulars for the purpose of making its enforcement more certain and less laborious. This was done, and the new act provides that the Board shall inspect the oyster and clam beds as often as is deemed necessary, thus doing away with the necessity for making annual inspections of many places where they are not needed. The provision requiring the issuing of certificates was left out. The provision relating to the condemnation of oyster and clam beds found to be receiving polluting materials was broadened and now applies to the shellfish themselves as well as to the beds in which they grow.

These changes improved the act materially, but the Legislature, following the precedent established in 1910, made no provision for its enforcement. During the past year, the staff of the Division of Food and Drugs has been so occupied with other work that but little time could be devoted to this very important problem. In 1910 a survey was made of the oyster beds in the Maurice River Cove, and in the large grounds in Ocean, Atlantic and Cape May counties, from which most of our oysters are taken. This survey was necessarily of a preliminary nature, and should be repeated in much greater detail, but it was found that the oysters as taken from the leased grounds were almost all in a satisfactory state of purity, in so far as this purity could be ascertained by bacteriological examination.

Plans were made to continue this work during the present year, to extend it to other localities, especially to the northern part of the State, and to investigate the condition of the waters in which these oysters are floated before they are sent to market. oysters taken in this State are almost all shipped in the shell. Our oystermen contend that it is not possible to ship these oysters and have them keep for a satisfactory length of time unless they are floated, that is immersed in fresher water than that in which they are grown, for a period of one or more tides. The practice of floating is therefore almost universal in this State. is done at or near the mouths of tidal streams which, in a thickly settled State like New Jersey, are more or less liable to pollution, and the investigation of the quality of the streams used for this purpose is of great importance. Unfortunately, as has been stated, an unusual press of other work prevented the continuance of these investigations, and our work on oysters during the year has been practically confined to the gathering of information relating to the collection and marketing of oysters and clams in the northern part of the State. A short account of these inspections follows:

Manasquan River. Oysters are not taken from the river. Soft clams and a few hard clams are gathered by natives of Manasquan, Brielle and Point Pleasant. During the summer season about sixty bushels of soft clams in the shell are shipped to points along the coast, as far north as Asbury Park. In the fall and winter the output is sent to New York City. Hard clams are scarce and none are shipped to market.

Shark River. A few oysters are gathered in the river during the winter months, but the output is small and is all used in the vicinity. Hard and soft clams are gathered in fairly large numbers, mostly during the summer months, but the demand for them in the vicinity is so great that they are all consumed locally. As far as can be gathered, the amount of polluting material, of a character which would render shellfish deleterious to health, which enters Shark river, is not great.

Shrewsbury River. On the Pleasure bay branch the continued pollution of the water by sewage and gas house wastes has rendered the shellfish which grow in these waters unfit for use. Oysters are no longer planted in this branch of the river, and clams which grow naturally there are not acceptable as food because of the pronounced taste of gas house wastes which they possess. On the Little Silver branch the pollution is not so extensive as to render the flavor of clams or oysters taken therefrom objectionable, but the oysters do not grow satisfactorily there at the present time, and the number taken from the river is very small. They are all consumed locally. Practically no clams are gathered in this branch of the river.

Navesink River, Sandy Hook Bay and Lower Raritan Bay. Inspections were made during the summer of the places from which shellfish are gathered from the Navesink river, Sandy Hook bay and Lower Raritan bay, and of certain places on the shores of these waters where these shellfish are prepared for shipment. Clamming is the main industry on the river and affords employment to a large number of men. Soft and shedder crabs are taken from the river in considerable numbers, in the neighborhood of

Oceanic and Fairhaven. Both hard and soft clams are found at almost all points on the bed of the Navesink river, from the bay to Oceanic bridge. The favorite places for clamming, however, are located just below Oceanic bridge and off the point at the junction of the Navesink and Shrewsbury rivers, and also on the lower bar at the mouth of the river and out into the bay. Most of the men engaged in gathering clams sell their catch direct to dealers, who prepare them for shipment. The shipping places that are inspected are located at Locust Point, Highlands and Belford. Highlands is the business center for this industry.

At Locust Point, on the north shore of the river, directly opposite Oceanic, is located a small shipping house, the owner of which buys clams from men who procure them from the river during the summer. The output of this shipping house is disposed of to fish dealers in Red Bank and to the summer residents along the Rumson road, any surplus being shipped to New York City. All clams shipped from this place are shipped in the shell.

At that part of the borough of Highlands known as Parkertown, quite an extensive industry in the opening of clams, both hard and soft, exists. The largest of these opening houses are operated by Reuben Parker and John Taylor, both of whom buy clams from persons who gather them in the vicinity. Hard clams that are not shipped as soon as gathered are placed on a sand bed in the river opposite the shipping house, or upon floats moored at this point, and in bins so constructed that the clams are covered at high water. Soft clams are kept on floats in the river until needed for shipment. Mr. Taylor and Mr. Parker supply many of the clams used on the coast as far south as Belmar, and also ship large quantities to the New York market. All soft clams, except those used for steaming, are opened before shipping. An examination of the opening and shipping housees operated by Mr. Parker showed that grave defects existed in its construction and manage-The building is a one-story structure about 12 by 18 feet, built upon piles, and has a leaky wooden floor. The side walls are rough, the frame work being exposed and the ceilings covered The door and two windows are without screens with cobwebs. and flies are numerous. The water used is drawn from a tap connected with the street main. There are no facilities for heating water or sterilizing utensils. At the time of the inspection, open soft clams were being packed for shipment in wooden barrels in

direct contact with broken ice. Some of these barrels were covered with pieces of old sacking and some were headed with wooden The barrels used were second hand ones collected from grocery stores throughout the country. The ice used is supplied by local ice dealers, and most of it comes from Rockland lake. Hard clams are all shipped in the shell, packed in sacks, barrels and boxes of various kinds. The sacks are used for an indefinite number of times and many of them were in a filthy condition. The larger part of the open clams shipped by Mr. Parker are opened by the wives and children of the clammers at their homes. An inspection was made of several of these homes, and the methods of handling the product there was observed. At the time of this inspection the opening was being done in the back yards. The openers threw the open clams into various receptacles containing water drawn from the city main. The clams were then strung in bunches of twenty-five and delivered to Mr. Parker. There is no attempt at supervision over the cleanliness of the openers or the places where the work is carried on.

The other opening house, operated by Mr. Taylor, is situated on the bank of the river about two hundred yards above Parker's place. The building is a one-story structure, 20 by 10 feet, built upon piles, and is divided into two rooms, one of which has a tight concrete floor and the other a leaky wooden floor. and windows are without screens. Drainage from the floor flows directly upon the ground and thence into the river. Three women and one boy were engaged in opening clams in the room with the The clams after being opened were thrown into concrete floor. galvanized iron tubs containing water drawn from the city main. When the tubs became full the clams were strung in bunches of twenty-five, then removed to the other room and packed in wooden barrels in direct contact with broken ice. The barrels were covered with pieces of burlap cut from old sacks which had been used many times and were very dirty. The barrels were second hand ones which had been collected from grocery stores or similar places, but had not been used before for the shipment of clams. these clams go to the New York market.

The shore surrounding both shipping houses was covered with shells, making a porous surface, so that no pools of water collected around the buildings. The decomposed meat in the shells and the garbage cast out from neighboring dwellings attracted numerous flies. A small stream which flows through the back yards of about twenty-five properties enters the river only a few feet above the bins and floats in which Mr. Taylor keeps his clams. The bed of this stream is covered with several months' accumulation of rubbish, and the stream receives the waste material from all the dwellings located along its banks. An inspection of the shores of the river showed that nearly all the houses above the bridge across the river at Highlands sewer directly into the river, as do also all of the amusement pavilions at Highland Beach.

Samples were collected of the clams taken to these shipping houses, and of the open clams after they had been prepared for shipment. An examination of these samples at the laboratory showed that they were of a satisfactory quality, judged by the bacteriological content, when taken from the bed of the river, but that a serious pollution occurred during the opening and handling in the shipping houses. These inspections show very clearly that the methods of handling and opening clams which now obtain in this vicinity are entirely improper and result in a serious deterioration of the product.

Red Bank. Inquiries made at Red Bank showed that no oysters were taken from the river during the summer, but it was stated that some are gathered after September 1st. These oysters are brought from other beds and planted in the river, but the total output is small, and the industry at that point is diminishing in importance.

Arthur Kill and Upper Raritan Bay. Inquiries made in this vicinity showed that no clams or oysters are being taken at the present time from the Raritan river for direct consumption. According to statements made by oyster dealers, it appears that the once somewhat extensive oyster industry in the Upper Raritan bay has been almost ruined by the increase in the quantity of polluting materials which are being discharged into the waters of the Arthur Kill and the Raritan river. It is stated that the pollution of these waters has increased to such an extent that the oysters are not only rendered unfit for human consumption, but that they are dying rapidly from the effects of the pollution, especially oysters that are brought from other beds and planted in these waters. Most of the dealers who formerly planted oysters in this vicinity are abandoning their beds, and it appears that the oyster industry at this point may soon cease to exist.

Cheesequake Creek. Inspections made at this point during the summer show that at least eight oyster dealers are floating oysters in the upper waters of Cheesequake creek, and that altogether about thirty floats are operated in this creek. Most of these oysters are brought from Long Island sound, and are taken direct to the ereek for floating before they are moored, or are planted in Prince's bay for a period of two or three months. Statements were made by oystermen in that vicinity that this creek was the only one along the shore the waters of which were sufficiently pure to make it possible to float oysters. No samples as yet have been collected from this vicinity, but it is purposed to make an examination of this creek during the coming year.

Keyport. An inspection made in October at Keyport showed that there were four dealers who purchase oysters in the Chesapeake bay and plant them in Raritan bay about one mile off shore, where they are left for a period of from one to six months. They are then floated for one or more tides in the creek back of Keyport, and shipped in the shell. Some of these oysters go to New York, but most of the output goes to summer resorts along the New Jersey shore. These oysters are gathered only during the months of June, July, August and September. Another dealer who obtains his oysters from beds located near Keyport, ships in the shell to various points in New Jersey, from September 1st to December 15th, and also during about a month in the spring. These oysters are also floated in the same creek for a period of one or more tides.

In addition to the oysters shipped in shell from Keyport, a large shucking house is operated by J. & J. W. Ellsworth Company. This concern shucks about eight hundred bushels of oysters per day during the season, and obtains their oysters from the south side of Staten Island. These oysters, or some of them, are floated in Cheesequake creek before being shucked. After shucking they are shipped in pails not in contact with ice. An inspection was made of the sanitary conditions in the shucking house, and these were found to be satisfactory.

Newark. An investigation was also made of the habits of certain dealers who bring shell oysters up the Hackensack and Passaic rivers in boats and sell them in Newark and Passaic. It appears that these oysters are obtained in Jamaica bay, and are brought to this State by the persons who gather them. Samples of these oysters will be collected in the near future.

Before any adequate study of the sanitary side of the oyster industry in this State can be made, it will be necessary for the Legislature to provide sufficient funds to pay the salaries and expenses of at least one inspector and a bacteriologist. mated that this will cost about \$5,000 per annum. In addition a motor boat will be needed for the inspector, of sufficient size and seaworthiness to make short trips on the ocean in fair weather, and of sufficiently light draught to navigate the shallow waters in which many of our oysters are grown. Some laboratory facilities must be provided on such a boat, and it is probable that its upper works at least would have to be built specially with this end in view. With one man in the field in a suitable boat all the time. and the bacteriologist dividing his time between field and laboratory work, much could be accomplished in the direction of locating and abating sources of pollution and in discovering and condemning oyster and clam grounds, the shellfish from which are liable to infection. Under present conditions we can do little to safeguard the consumer against the possibility of infection by contaminated oysters.

INSPECTION OF SLAUGHTER HOUSES.

In the annual report for 1910 is a short account of the attempt of this division to enforce the slaughter house license act (chapter 295 of the laws of 1910). The work done during 1910 was necessarily of a preliminary character, because the law was new and also because it was necessary to obtain accurate information regarding conditions existing in the State before much systematic work could be attempted. Then, too, the inspections had to be made by persons not particularly well versed in slaughter house practise. During 1911 the services of a veterinarian were secured, who had had considerable experience in meat inspection in the service of the Bureau of Animal Industry, and who by reason of this experience was particularly well fitted to undertake the supervision of slaughter houses. During 1911 much progress has been made in inspecting slaughter houses and in correcting improper conditions found to exist in them. The following table shows in detail the number of places inspected, the number of inspections made in each, and the conditions found:

TABLE 8.—SHOWING LOCATION AND CONDITION OF SLAUGHTER HOUSES.

LOCATION.	NAME OF OPERATOR.	Number.	Number of Inspections.	Condition, First Inspection.	Changes Recommended.	Recommendations Complied With.	Condition on Reinspection.	License Granted
tlantic County—		_	-	_	_		-	-
Atlantic City	Jesse Taylor Sons & Co	202	2	good	no	************	good	y
4	Festoff & Levitsky Co	365	1	bad	yes			n
***************************************	Z. Waldmann Schildhorn & Hammer	366	1	bad	yes			
" "	Jeoch Levitteler	367 368	1	bad	yes yes			
	Jacob Levittsky Nathan Levine	442	1	bad	yes			
For Horbon Oless		313	î	fair	ves			
44 44 44	William Oberfell	314	1	fair	ves			n
	FICH BUILDER WEIGHT COMMENT COMMENTS	315	1	fair	yes			n
Folsom	Jacob Eckhardt	126	0			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Hammonton	M. L. Jackson & Son	127	1	bad	yes			
	Joe Russo	128	1	bad	yes			
**	Pietro Coro Rocco Ruberto	129	0					
Somers Point	Charles White	369	0	*******	*****	**********		
	Pedar Tunkelson	307	C	********	*****	***************************************		'n
	the same and the s							i
ergen County—	and the second							:
Englewood	F. J. Howell	193	0	·	14+++	1990 22 001		n
Clarfield Perk	Louis Beck	272	2	bad	yes		fair	n
Hackensack	A I. Leng	215 139	2	bad	yes	no	bad	n
Little Ferry	William Weleck	472	0	******	*****	***** * ***		
Lodi	Christopher Davis	271	0	*********		***************************************		,
**	Henry Van Schke	476	1	bad	yes			
Oakland	A. L. Lenz. William Weleck. Christopher Davis. Henry Van Schke. C. H. MacNomer.	487	0		******	***********		
Tenany	Samuel Sabin	110	2	bad	yes	partly	fair	n
ırlington County—								
Bordentown	John Matthews William Warner	320	0			(5)		n
**	William Warner	321	0		******		50	
	Dhillip Matthone	312	Ü		*****	*******		n
	Puning Maunews							y
Bridgeboro	Phillip Matthews	216	1	good	no	**********	***	
Bridgeboro	William F. Kanderer	216 318	Ô					'n
Bridgeboro	William F. Kanderer	216 318 236	0	bad	по			n
Bridgeboro	William F. Kanderer	216 318 236 237	0 1 0	bad	по	***************************************		n n
Bridgeboro	William F. Kanderer	216 318 236 237 319	0 1 0 0	bad	по	***********		n n n
Bridgeboro Columbus Crosswicks Dobbin Station Florence	William F. Kanderer Albert Price Willett Satterthwaite Zedekiah McCabe George Paul Dougherty & Stackhouse	216 318 236 237 319 294	0 1 0 0 0	bad	no	***************************************		n n n
Bridgeboro Columbus Crosswicks Dobbin Station Florence	William F. Kanderer Albert Price Willett Satterthwaite Zedekiah McCabe George Paul Dougherty & Stackhouse	216 318 236 237 319 294 295	0 0 0 0 0	bad	no	***************************************		n n n n
Bridgeboro Columbus Crosswicks Dobbin Station Florence	William F. Kanderer Albert Price Willett Satterthwaite Zedekiah McCabe George Paul Dougherty & Stackhouse	216 318 236 237 319 294 295 296	0 1 0 0 0	bad	no	***************************************		n n n n n
Bridgeboro Columbus Crosswicks Dobbin Station Florence	William F. Kanderer Albert Price Willett Satterthwaite Zedekiah McCabe George Paul Dougherty & Stackhouse	216 318 236 237 319 294 295 296 242 312	0 0 0 0 0 0 1 0	bad	no	***************************************		n n n n n
Bridgeboro Columbus Crosswicks Dobbin Station Florence	William F. Kanderer Albert Price Willett Satterthwaite Zedekiah McCabe George Paul Dougherty & Stackhouse	216 318 236 237 319 294 295 296 242 312 262	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bad	no	44444		n n n n n n
Bridgeboro Columbus Crosswicks Dobbin Station Florence	William F. Kanderer Albert Price Willett Satterthwaite Zedekiah McCabe George Paul Dougherty & Stackhouse	216 318 236 237 319 294 295 242 312 262 263	0 0 0 0 0 0 0 0 1 0 0 1	bad bad fair	no yes	47444		n n n n n n
Bridgeboro Columbus Crosswicks Dobbin Station Florence. Lewistown Mariton Medford	William F. Kanderer. Albert Price. Willett Satterthwaite. Zedekiah McCabe George Paul. Dougherty & Stackhouse. Paris Ormin. Charles Smith Lewis Mantell. John Lleberman. Braddock & Reeve. Robert Henderson.	216 318 236 237 319 294 295 242 312 262 263 264	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bad bad fair	yes	4/4444		n n n n n n n
Bridgeboro Columbus Crosswicks Dobbin Station Florence Lewistown Mariton Medford Mount Holly	William F. Kanderer. Albert Price. Willett Satterthwaite. Zedekiah McCabe George Paul. Dougherty & Stackhouse. Paris Ormin. Charles Smith Lewis Mantell. John Lieberman. Braddock & Reeve. Robert Henderson. Samuel N. Lamb. Philip Karge.	216 318 236 237 319 294 295 296 242 312 262 263 264 325	0 1 0 0 0 0 0 0 0 1 0 0 2	bad bad fair bad	yes	yes	good	n n n n n n
Bridgeboro Columbus Crosswicks Dobbin Station Florence Lewistown Mariton Medford Mount Holly	William F. Kanderer. Albert Price. Willett Satterthwaite. Zedekiah McCabe George Paul. Dougherty & Stackhouse. Paris Ormin. Charles Smith Lewis Mantell John Lieberman. Braddock & Reeve. Robert Henderson. Samuel N. Lamb. Philip Karge. John Jobs. Charles F. Parker.	216 318 236 237 319 294 295 296 242 312 262 263 264 325 326	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bad bad fair bad fair	yes yes	yes	good	n n n n n n
Bridgeboro Columbus Crosswicks Dobbin Station Florence Lewistown Mariton Medford Mount Holly	William F. Kanderer. Albert Price. Willett Satterthwaite. Zedekiah McCabe George Paul. Dougherty & Stackhouse. Paris Ormin. Charles Smith Lewis Mantell. John Lieberman. Braddock & Reeve. Robert Henderson. Samuel N. Lamb. Philip Karge. John Jobs. Charles F. Parker. John Worth	216 318 236 237 319 294 295 296 242 312 262 263 264 325	0 1 0 0 0 0 0 0 0 1 0 0 0 1 0 0 1 0 1 0	bad bad fair bad fair	yes	yes	good	n n n n n n n n
Bridgeboro Columbus Crosswicks Dobbin Station Florence. Lewistown Mariton Medford Mount Holly. Pemberton	William F. Kanderer. Albert Price. Willett Satterthwaite. Zedekiah McCabe George Paul. Dougherty & Stackhouse. Paris Ormin. Charles Smith Lewis Mantell. John Lieberman. Braddock & Reeve. Robert Henderson. Samuel N. Lamb. Philip Karge. John Jobs. Charles F. Parker. John Worth. W. W. Lippincott.	216 318 236 237 319 294 295 296 242 312 262 263 264 325 326 485 3×3	0 1 0 0 0 0 0 0 0 0 1 0 0 2 1 0 0 1	bad bad fair bad fair	yes yes	yes	good	n n n n n n n n n
Bridgeboro Columbus Crosswicks Dobbin Station Florence Lewistown Mariton Medford Mount Holly Pemberton	William F. Kanderer. Albert Price. Willett Satterthwaite. Zedekiah McCabe George Paul. Dougherty & Stackhouse. Paris Ormin. Charles Smith Lewis Mantell. John Lieberman. Braddock & Reeve. Robert Henderson. Samuel N. Lamb. Philip Karge. John Jobs. Charles F. Parker. John Worth. W. W. Lippincott. Montgomery & Ballinger.	216 318 236 237 319 294 295 296 242 312 262 263 326 327 485 333 384	0 1 0 0 0 0 0 0 0 1 0 0 2 1 0 0 0 0 1 0 0 0 0	bad bad fair bad fair	yes yes yes	yes	good	
Bridgeboro Columbus Crosswicks Dobbin Station Florence Lewistown Mariton Medford Mount Holly Pemberton Riverside Townshfp	William F. Kanderer. Albert Price. Willett Satterthwaite. Zedekiah McCabe George Paul. Dougherty & Stackhouse. Paris Ormin. Charles Smith Lewis Mantell. John Lieberman. Braddock & Reeve. Robert Henderson. Samuel N. Lamb. Philip Karge. John Jobs. Charles F. Parker. John Worth. W. W. Lippincott. Montgomery & Ballinger. Jacob Lusch.	216 318 236 237 319 294 295 295 242 312 262 263 264 325 326 327 485 333 384 172	0 0 0 0 0 0 0 0 0 1 0 0 2 1 0 0 0 0 0 0	bad bad fair bad fair good	yes yes yes	yes	good	
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Bridgeboro Columbus Crosswicks Dobbin Station Florence Lewistown Marlton Medford Mount Holly Pemberton Riverside Townshfp Vincentown	William F. Kanderer. Albert Price. Willett Satterthwaite. Zedekiah McCabe George Paul. Dougherty & Stackhouse. Paris Ormin. Charles Smith Lewis Mantell. John Lieberman. Braddock & Reeve. Robert Henderson. Samuel N. Lamb. Philip Karge. John Jobs. Charles F. Parker. John Worth. W. W. Lippincott. Montgomery & Ballinger. Jacob Lusch. William Sarstadt. George Abrams.	216 318 236 287 319 294 295 206 242 263 263 264 325 325 327 485 327 485 327 485 327 485 327 485 327 485 327 485 327 485 327 487 487 487 487 487 487 487 487 487 48	0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 1 0 0 0 0	bad bad fair bad fair good	yes yes yes yes no	yes	good	n n n n n n n n n n n n n n n n n n n
Bridgeboro Columbus Crosswicks Dobbin Station Florence Lewistown Mariton Medford Mount Holly Pemberton Riverside Townshfp	William F. Kanderer. Albert Price. Willett Satterthwaite. Zedekiah McCabe George Paul. Dougherty & Stackhouse. Paris Ormin. Charles Smith Lewis Mantell. John Lieberman. Braddock & Reeve. Robert Henderson. Samuel N. Lamb. Philip Karge. John Jobs. Charles F. Parker. John Worth. W. W. Lippincott. Montgomery & Ballinger. Jacob Lusch.	216 318 236 237 319 294 295 295 242 262 263 327 485 384 172 173	0 1 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1	bad bad fair bad fair good	yes yes yes	yes	good	n n n n n n n n n n n n n n n n n n n
Bridgeboro Columbus Crosswicks Dobbin Station Florence Lewistown Marlton Medford Mount Holly Pemberton Riverside Township Vincentown	William F. Kanderer. Albert Price. Willett Satterthwaite. Zedekiah McCabe George Paul. Dougherty & Stackhouse. Paris Ormin. Charles Smith Lewis Mantell. John Lieberman. Braddock & Reeve. Robert Henderson. Samuel N. Lamb. Philip Karge. John Jobs. Charles F. Parker. John Worth. W. W. Lippincott. Montgomery & Ballinger. Jacob Lusch. William Sarstadt. George Abrams. Eugene O. Haines.	216 318 236 287 319 294 295 206 242 263 263 264 325 325 327 485 327 485 327 485 327 485 327 485 327 485 327 485 327 485 327 487 487 487 487 487 487 487 487 487 48	0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 1 0 0 0 0	bad bad fair bad fair good	yes yes yes yes no	yes	good	n n n n n n n n n n n n n n n n n n n
Bridgeboro Columbus Crosswicks Dobbin Station Florence Lewistown Mariton Medford Mount Holly Pemberton Riverside Township Vincentown	William F. Kanderer. Albert Price. Willett Satterthwaite. Zedekiah McCabe George Paul. Dougherty & Stackhouse. Paris Ormin. Charles Smith Lewis Mantell. John Lieberman. Braddock & Reeve. Robert Henderson. Samuel N. Lamb. Philip Karge. John Jobs. Charles F. Parker. John Worth. W. W. Lippincott. Montgomery & Ballinger. Jacob Lusch. William Sarstadt. George Abrams. Eugene O. Haines.	216 318 236 287 319 294 295 206 242 263 263 264 325 325 327 485 327 485 327 485 327 485 327 485 327 485 327 485 327 485 327 487 487 487 487 487 487 487 487 487 48	0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 1 0 0 0 0	bad bad fair bad fair good	yes yes yes yes no	yes	good	n n n n n n n n n n n n n n n n n n n
Bridgeboro Columbus Crosswicks Dobbin Station Florence Lewistown Mariton Medford Mount Holly "" Pemberton Riverside Townshfp Vincentown unden County— Blackwood Camden	William F. Kanderer. Albert Price. Willett Satterthwaite. Zedekiah McCabe George Paul. Dougherty & Stackhouse. Paris Ormin. Charles Smith Lewis Mantell. John Lieberman. Braddock & Reeve. Robert Henderson. Samuel N. Lamb. Philip Karge. John Jobs. Charles F. Parker. John Worth. W. W. Lippincott. Montgomery & Ballinger. Jacob Lusch. William Sarstadt. George Abrams.	216 318 236 237 319 294 295 242 262 263 325 325 343 345 384 172 173 154 155	0 0 0 0 0 0 0 1 0 0 0 0 1 1 1 1 1	bad bad fair bad fair good	yes yes yes yes no	yes	good	n n n n n n n n n n n n n n n n n n n

TABLE 8.—SHOWING LOCATION AND CONDITION OF SLAUGHTER HOUSES—

Continued.

LOCATION.	NAME OF OPERATOR.	Number.	Number of Inspections.	Condition, Pirst Inspection.	Changes Recommended.	Recommendations Complied With	Condition on Reinspection.	License Granted.
Camden County—Con.			-		_			_
Camden	Fred Banzhoff		2	fair	yes	yes	good	yes
Clementon	Howard Jaggard E. G. Firth	185 350						no no
Greenioch	Harry Harper	351						no
Kirkwood	Harry Harper Frank Henderson & Son	192		bad	yes			no
Haddonfield	Isaac Ellis & Son	156		fair	yes		good	yes
Tindon mold	Samuel Hunt	157	2	bad	yes	no	bad	no
Lindenwald	William Kammer Braddock Bros	182 183						no no
	Henry Sturburg							no
National Park	Lentz Bros	109		bad	yes			no
Berlin	Thomas Bray						١	no
***************************************	James Clark	153	0		·····		٠	no
Cape May County-								
Cape May Court House	J. S. Willis	246						no
	Joseph Levine	248						no
	McPherson Bros							no
Rio Grand	F. E. Platt	247				· · · · · · · · · · · · · · · · · · ·		
Woodbine	Woodbing Beef Co	306						
**	Max Potachmick	438		bad	no			no
Cumberland County-						ł	: !	!
	G. H. Barth	119	D	1	1			no
14	H. Silberman	381		bad				no
**		342		pad				
	Oscar L. Hitchner	422		bad	no	·····	•••••	no
44	John J. Dixon	446		bad bad				
Carmel	samuel Clearfield	230		Date				
**	Harry Catler	401	1	bad				no
	Herman Catler	412	1	bad				no
Cedarville	B. Frank Burt	305 400		bad bad	yes		,	no
Mauricetown	Theodore Fisher	261	o	Oau	, ca			no
Millville	Whitall Tatum Co	227	2	fair	ves	yes	good	yes
	Valentine Schlacter				yes	yes	good	' 'es
North Windland	Jacob Fisher	229	0			·····	•••••	no
Shiloh	William Shoemaker Wayde G. Allen	447	1	filthy bad			•••••••	no
Vineland	Sheu & Trainman	243						no
**	Marshall & Crossman	245		bad	yes	ˈ 		no
Fore County					ı	į.	İ	
Essex County—	Beck & Canfield	353	2	bad	yes	yes	good	'yes
	John Englehorn	3.4		good	no			yes
	<imor &="" hauser="" son<="" td=""><td></td><td>2</td><td>bad</td><td>yes</td><td>no</td><td>bad</td><td>no</td></imor>		2	bad	yes	no	bad	no
	Emil Kohn	356 257			yes		good	yes
*************	Maybaum & Sons	$\frac{357}{358}$			yes	yes	fair	yes
	Benjamin Novick		ĭ		yes			no
44	A. Hollender & Son	448	1	filthy	yes	·		no
0.1411	Benjamin Stein	453			yes	·		no
	Chris Sengling	234 235			yes	yes	good	yes
••	Louis Senking	23.)	0				' .	no

TABLE 8.—SHOWING LOCATION AND CONDITION OF SLAUGHTER HOUSES-Continued.

LOCATION.	NAME OF OPERATOR.	Number.	Number of Inspections.	Condition, First Inspection.	Changes Recommended.	Recommendations Complied With.	Condition on Reinspection.	License Granted.
loucester County—	Tr. M. Ollers & Des	150					,	
Bridgeport	H. McGlincy & Bro	. 170 . 837		bad	yes			no
Franklinville	Benjamin Carr. H. Nathan. John W. Riley. Lewis Robluson.	371	1	Data	yes		,·····	no
Harrison villa	John W Riley	. 335	ıί	hed	VAS	i		no
Mantua	Lewis Robinson	238	ا ا	Dau	, 60		,;	no
Mullica Hill	George Madera	336	l ŏ			l		no
Peuleboro	Charles Northnagle	. 103	ľ					
- 34.550.0	George Madera	. 10	ŏ					
sewell	Harry Berry	233	ίi	bad	yes			no
**	William Jenkins	240						no
44	Oscar Carter	241	1		yes	, ,		no
Swedesboro	Theodore B. Hurff	103		bad				
Williamstown	Mrs. Jacob Suter	. 394	1	fair	oa			no
	i i	ł	1		1			i
udson County—	1		1		i	ļ	1	!
Guttenberg	Fisher & Co	. 478					•••••	nc
Jersey City	Fisher & Co	. 474		1		ļ		no
W	Nagle Packing Co	476			··· ·			no
Kearny	Swift & Co	374	3	fair	yes		good	ye ye
44	Bimbler, VanWagenen & CoSchwarz Bros. Co	496	3		no		bad	no
North Bargen Townsh	ip. Chas. Miller & Co	376) i 3	good	no			ye
MOI MT DEIKEN TOWNER		9/(, ,	good	ш	********		, , ,
West New York	West New York Packing Co.	954	0	yl "		1	i	no
West New York	West New York Packing Co.	. 352	2 0			`		no
West New York	West New York Packing Co.	. 352	2 0		······	' 		no
West New York	West New York Packing Co.	352			ves			!
West New York	West New York Packing Co.	352		fair	yes			no
West New York	West New York Packing Co.	352		fair	yes	ļ		no
West New York	West New York Packing Co.	352		fair bad	yes	no	filthy	no no no
West New York	West New York Packing Co.	352		fair bad filthy bad	yes	no	filthy	no no no
West New York	West New York Packing Co.	352		fair bad filthy bad fair	yes yes no	no partly	filthy	no no no no no ye
West New York	West New York Packing Co.	352		fair bad filthy bad fair fair	yes yes no no	no partly	filthy	no no no no ye
West New York	West New York Packing Co.	352		fair bad filthy bad fair fair fair	yes yes no no yes	no partly	filthy fair good	no no no no no ye
West New York Unterdon County— Annandale Califon Clinton Everittstown Frenchtown	West New York Packing Co. A. Lewis Ramsey Louis E. Merrill Samuel Neigh S. G. Lunger J. V. Aller Harry Warner William Loper L. M. Hoffman & Son S. Frank Ondyke	416 418 100 121 391 344	5 1 3 0 1 2 2 2 3 2 1 1	fair bad filthy bad fair fair fair fair	yes yes no no yes	no partly	filthy fair good	no no no no ye no no no
West New York Unterdon County— Annandale Califon Clinton Everittstown Frenchtown	West New York Packing Co. A. Lewis Ramsey Louis E. Merrill Samuel Neigh S. G. Lunger J. V. Aller Harry Warner William Loper L. M. Hoffman & Son S. Frank Ondyke	416 418 100 121 391 344	5 1 3 0 1 2 2 2 3 2 1 1	fair bad filthy bad fair fair fair fair fair	yes yes no no yes yes	no partly	filthy	no no no no ye no no no no no no no no no no no no no
West New York Unterdon County— Annandale Califon Clinton Everittstown Frenchtown	West New York Packing Co. A. Lewis Ramsey Louis E. Merrill Samuel Neigh S. G. Lunger J. V. Aller Harry Warner William Loper L. M. Hoffman & Son S. Frank Ondyke	416 418 100 121 391 344	5 1 3 0 1 2 2 2 3 2 1 1	fair bad filthy bad fair fair fair fair fair fair	yes yes no no yes	no partly	filthy fair good	no no no no ye no no no no no no no no no no no no no
West New York unterdon County— Annandale Califon Clinton Everittstown Frenchtown " Holland Lambertville Lineville	West New York Packing Co. A. Lewis Ramsey Louis E. Merrill Samuel Neigh S. G. Lunger J. V. Aller Harry Warner William Loper L. M. Hoffman & Son S. Frank Opdyke Charles Ulmer Hull & Beach Charles Ely	352 416 418 100 122 391 342 343 18' 395 218	3 1 2 2 2 2 2 2 3 3 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	fair bad filthy bad fair fair fair fair fair fair	yes yes no no yes yes yes	no partly yes	filthy fair good	no no no no no ye no no no no no no no no no no no no no
West New York Unterdon County— Annandale Califon Clinton Frenchtown Frenchtown Holland Lambertville Lineville Lineville Linevolle	A. Lewis Ramsey. Louis E. Merrill. Samuel Neigh. S. G. Lunger. J. V. Aller. Harry Warner. William Loper. L. M. Hoffman & Son. S. Frank Opdyke. Charles Ulmer. Hull & Beach. Charles Ely.	352 416 418 100 122 391 344 348 18' 391	3 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	fair bad filthy bad fair fair fair fair fair fair fair	yes yes no no yes yes yes	no partly yes	filthy fair good	no no no no no no no no no no no no no n
West New York unterdon County— Annandale Califon Cilnton Everittstown Frenchtown Holland Lambertville Lineville Lineville Lebanon Milford	A. Lewis Ramsey. Louis E. Merrill. Samuel Neigh. S. G. Lunger. J. V. Aller. Harry Warner. William Loper. L. M. Hoffman & Son. S. Frank Opdyke. Charles Ulmer. Hull & Beach Charles Ely. Harry R. Lambert. Elmer E. Culver.	352 416 418 100 122 391 342 343	3 1 1 2 2 2 2 3 3 1 1 1 1 1 1 1 1 1 1 1	fair bad filthy bad fair fair fair fair fair fair fair	yes yes no no yes yes yes	no partly yes	filthy fair good good filthy good	no no no no no no no no no no no no no n
West New York unterdon County— Annandale Califon Cilnton Everittstown Frenchtown Holland Lambertville Lineville Lineville Lebanon Milford	A. Lewis Ramsey. Louis E. Merrill. Samuel Neigh. S. G. Lunger. J. V. Aller. Harry Warner. William Loper. L. M. Hoffman & Son. S. Frank Opdyke. Charles Ulmer. Hull & Beach Charles Ely. Harry R. Lambert. Elmer E. Culver.	352 416 418 100 122 391 342 343	3 1 1 2 2 2 2 3 3 1 1 1 1 1 1 1 1 1 1 1	fair bad filthy bad fair fair fair fair fair fair fair fair	yes yes no no yes yes yes yes yes	no partly yes	filthy fair good good filthy good	no no no no no no no no no no no no no n
West New York unterdon County— Annandale Califon Cilnton Everittstown Frenchtown Holland Lambertville Lineville Lineville Lebanon Milford	A. Lewis Ramsey. Louis E. Merrill. Samuel Neigh. S. G. Lunger. J. V. Aller. Harry Warner. William Loper. L. M. Hoffman & Son. S. Frank Opdyke. Charles Ulmer. Hull & Beach Charles Ely. Harry R. Lambert. Elmer E. Culver.	352 416 418 100 122 391 342 343	3 1 1 2 2 2 2 3 3 1 1 1 1 1 1 1 1 1 1 1	fair bad filthy bad fair fair fair fair fair fair fair bad filthy fair fair bad	yes yes no no yes yes yes yes yes yes	no partly yes	filthy fair good good filthy good	no no no no no no no no no no no no no n
West New York unterdon County— Annandale Califon Cilnton Everittstown Frenchtown Holland Lambertville Lineville Lineville Lebanon Milford	A. Lewis Ramsey. Louis E. Merrill. Samuel Neigh. S. G. Lunger. J. V. Aller. Harry Warner. William Loper. L. M. Hoffman & Son. S. Frank Opdyke. Charles Ulmer. Hull & Beach Charles Ely. Harry R. Lambert. Elmer E. Culver.	352 416 418 100 122 391 342 343	3 1 1 2 2 2 2 3 3 1 1 1 1 1 1 1 1 1 1 1	fair bad filthy bad fair fair fair fair fair bad filthy fair fair bad	yes yes no no yes yes yes yes yes yes	no partly yes no	filthy fair good good filthy good	no no no no no no no no no no no no no n
West New York unterdon County— Annandale Califon Clinton Frenchtown Frenchtown Holland Lambertville Lineville, Lebanon Milford Mt. Pleasant. Pattenburg Pittstown	West New York Packing Co. A. Lewis Ramsey. Louis E. Merrill. Samuel Neigh. S. G. Lunger. J. V. Aller. Harry Warner. William Loper. L. M. Hoffman & Son. S. Frank Opdyke. Charles Ulmer. Hull & Beach. Charles Ely. Harry R. Lambert. Elmer E. Culver. S. C. Childs. Robbins & Hoppock. J. S. Gano. S. Reed.	352 416 418 100 124 344 344 187 218 288 477 188 287	6 1 1 2 2 2 3 2 2 3 3 3 3 3 3 3 3 3 3 3 3	fair bad filthy bad fair fair fair fair bad filthy fair bad fair bad	yes yes no no yes yes yes yes yes yes yes yes yes	no partly yes	filthy fair good good filthy good	no no no no no no no no no no no no no n
West New York unterdon County— Annandale Califon Clinton Everitatiown Frenchtown "" Holland Lambertville Lineville Lineville Lebanon Milford "" Mt. Pleasant Pattenburg Pittstown Ringoes	West New York Packing Co. A. Lewis Ramsey Louis E. Merrill Samuel Neigh S. G. Lunger J. V. Aller Harry Warner William Loper L. M. Hoffman & Son S. Frank Opdyke. Charles Ulmer Hull & Beach Charles Ely Harry R. Lambert Elmer E. Culver S. C. Childs Robbins & Hoppock J. S. Gano S. R. Reed R. Reed	35; 416; 418; 100; 124; 34; 34; 34; 18; 21; 18; 18; 18; 21; 22;	3 1 1 2 2 2 2 3 3 5 1 1 5 1 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1	fair bad filthy bad fair fair fair fair fair bad filthy fair fair bad fair	yes yes no no yes yes yes yes yes yes yes yes yes	no partly yes	filthy fair good good filthy good	no no no no no no no no no no no no no n
West New York unterdon County— Annandale Califon Clinton Everitztown Frenchtown Holland Lambertville Lineville Lineville Lineville Mt. Pleasant Pattenburg Pittstown Ringoes Regen Rock	West New York Packing Co. A. Lewis Ramsey. Louis E. Merrill. Samuel Neigh. S. G. Lunger. J. V. Aller. Harry Warner. William Loper. L. M. Hoffman & Son. S. Frank Opdyke. Charles Ulmer. Hull & Beach. Charles Ely. Harry R. Lambert. Elmer E. Culver. S. C. Childs. Robbins & Hoppock. J. S. Gano. S. R. Reed. Rynear H. Hill. William Hartpence. Clark B. Lobbon.	352 416 418 100 122 391 344 345 218 218 218 217 219 211 211 211	3 1 2 2 2 2 3 3 2 2 3 3 3 3 3 3 3 3 3 3	fair bad filthy bad fair fair fair fair fair bad filthy fair fair bad fair	yes yes no no yes yes yes yes yes yes yes yes yes	no partly yes no	filthy fair good good filthy good	no no no ye no no no ye no no ye no no ye no no ye no no no no ye no no no no no no no no no no no no no
West New York unterdon County— Annandale Califon Clinton Everitztown Frenchtown Holland Lambertville Lineville Lineville Lineville Mt. Pleasant Pattenburg Pittstown Ringoes Regen Rock	West New York Packing Co. A. Lewis Ramsey. Louis E. Merrill. Samuel Neigh. S. G. Lunger. J. V. Aller. Harry Warner. William Loper. L. M. Hoffman & Son. S. Frank Opdyke. Charles Ulmer. Hull & Beach. Charles Ely. Harry R. Lambert. Elmer E. Culver. S. C. Childs. Robbins & Hoppock. J. S. Gano. S. R. Reed. Rynear H. Hill. William Hartpence. Clark B. Lobbon.	352 416 418 100 122 391 344 345 218 218 218 217 219 211 211 211	3 1 2 2 2 2 3 3 2 2 3 3 3 3 3 3 3 3 3 3	fair bad filthy bad fair fair fair fair fair bad filthy fair fair bad bad bad bad	yes yes no no yes yes yes yes yes yes yes yes yes	no partly yes	filthy fair good	no no no no no no no no no no no no no n
West New York unterdon County— Annandale Califon Clinton Everitztown Frenchtown Holland Lambertville Lineville Lineville Lineville Mt. Pleasant Pattenburg Pittstown Ringoes Regen Rock	West New York Packing Co. A. Lewis Ramsey. Louis E. Merrill. Samuel Neigh. S. G. Lunger. J. V. Aller. Harry Warner. William Loper. L. M. Hoffman & Son. S. Frank Opdyke. Charles Ulmer. Hull & Beach. Charles Ely. Harry R. Lambert. Elmer E. Culver. S. C. Childs. Robbins & Hoppock. J. S. Gano. S. R. Reed. Rynear H. Hill. William Hartpence. Clark B. Lobbon.	352 416 418 100 122 391 344 345 218 218 218 217 219 211 211 211	3 1 2 2 2 2 3 3 2 2 3 3 3 3 3 3 3 3 3 3	fair bad filthy bad fair fair fair fair bad fair fair bad bad bad bad	yes yes yes yes yes yes yes yes yes yes	no partly yes no	filthy fair good good filthy good	ne ne ne ne ne ne ne ne ne ne ne ne ne n
West New York unterdon County— Annandale Califon Clinton Everitztown Frenchtown Holland Lambertville Lineville Lineville Lineville Mt. Pleasant Pattenburg Pittstown Ringoes Regen Rock	West New York Packing Co. A. Lewis Ramsey. Louis E. Merrill. Samuel Neigh. S. G. Lunger. J. V. Aller. Harry Warner. William Loper. L. M. Hoffman & Son. S. Frank Opdyke. Charles Ulmer. Hull & Beach. Charles Ely. Harry R. Lambert. Elmer E. Culver. S. C. Childs. Robbins & Hoppock. J. S. Gano. S. R. Reed. Rynear H. Hill. William Hartpence. Clark B. Lobbon.	352 416 418 100 122 391 344 345 218 218 218 217 219 211 211 211	3 1 2 2 2 2 3 3 2 2 3 3 3 3 3 3 3 3 3 3	fair bad filthy bad fair fair fair fair bad filthy bad fair bad bad bad bad bad fair	yes yes yes yes yes yes yes yes yes yes	no partly yes	filthy fair good good filthy good bad fair	ne ne ne ne ne ne ne ne ne ne ne ne ne n
West New York unterdon County— Annandale Califon Clinton. Everittstown Frenchtown. Holland Lambertville Lineville Liebanon Milford Mt. Pleasant. Pattenburg Pittstown Ringoes Raven Rock Rosemont Sergeantsville Stockton	West New York Packing Co. A. Lewis Ramsey. Louis E. Merrill. Samuel Neigh. S. G. Lunger. J. V. Aller. Harry Warner. William Loper. L. M. Hoffman & Son. S. Frank Opdyke. Charles Ulmer. Hull & Beach. Charles Ely. Harry R. Lambert. Elmer E. Culver. S. C. Childs. Robbins & Hoppock. J. S. Gano. S. R. Reed. Rynear H. Hill. William Hartpence. (Clark B. Johnson. Jos. A. Melick & Son. J. J. Rittenbouse. William Durling. John L. Reed (retired).	35: 410 418 418 34: 34: 34: 38: 28: 18: 28: 18: 28: 18:	3 1 1 2 2 2 3 2 2 3 3 2 3 3 3 3 3 3 3 3	fair bad filthy bad fair fair fair fair bad filthy bad fair bad fair bad bad bad bad	yes yes yes no no yes yes yes yes yes yes yes yes yes yes	no partly yes no	filthy fair good good filthy good bad fair fair	ne ne ne ne ne ne ne ne ne ne ne ne ne n
West New York unterdon County— Annandale Califon Clinton Everitztown Frenchtown Holland Lambertville Lineville Lineville Lineville Mt. Pleasant Pattenburg Pittstown Ringoes Regen Rock	West New York Packing Co. A. Lewis Ramsey. Louis E. Merrill. Samuel Neigh. S. G. Lunger. J. V. Aller. Harry Warner. William Loper. L. M. Hoffman & Son. S. Frank Opdyke. Charles Ulmer. Hull & Beach. Charles Ely. Harry R. Lambert. Elmer E. Culver. S. C. Childs. Robbins & Hoppock. J. S. Gano. S. R. Reed. Rynear H. Hill. William Hartpence. Clark B. Johnson. Jos. A. Melick & Son. J. J. Rittenhouse. William Durling. John L. Reed (retired).	35: 410 418 418 34: 34: 34: 38: 28: 18: 28: 18: 28: 18:	3 1 1 2 2 2 3 2 2 3 3 2 3 3 3 3 3 3 3 3	fair bad filthy bad fair fair fair fair bad filthy bad fair bad bad bad bad bad fair	yes yes yes yes yes yes yes yes yes yes	no partly yes no	filthy fair good good filthy good bad fair fair	ne ne ne ne ne ne ne ne ne ne ne ne ne n
West New York unterdon County— Annandale Califon Clinton Everitztown Frenchtown " Holland Lambertville Lineville Lineville Lebanon Milford Mt. Pleasant Pattenburg Pittstown Ringoes Raven Rock Rosemont Sergeantsville Stockton	West New York Packing Co. A. Lewis Ramsey. Louis E. Merrill. Samuel Neigh. S. G. Lunger. J. V. Aller. Harry Warner. William Loper. L. M. Hoffman & Son. S. Frank Opdyke. Charles Ulmer. Hull & Beach. Charles Ely. Harry R. Lambert. Elmer E. Culver. S. C. Childs. Robbins & Hoppock. J. S. Gano. S. R. Reed. Rynear H. Hill. William Hartpence. (Clark B. Johnson. Jos. A. Melick & Son. J. J. Rittenbouse. William Durling. John L. Reed (retired).	35: 410 418 418 34: 34: 34: 38: 28: 18: 28: 18: 28: 18:	3 1 1 2 2 2 3 2 2 3 3 2 3 3 3 3 3 3 3 3	fair bad filthy bad fair fair fair fair bad filthy bad fair bad fair bad bad bad bad	yes yes yes no no yes yes yes yes yes yes yes yes yes yes	no partly yes no	filthy fair good good filthy good bad fair fair	
West New York unterdon County— Annandale	West New York Packing Co. A. Lewis Ramsey. Louis E. Merrill Samuel Neigh. S. G. Lunger. J. V. Aller. Harry Warner. William Loper. L. M. Hoffman & Son. S. Frank Opdyke. Charles Ulmer. Hull & Beach. Charles Ely. Harry R. Lambert. Elmer E. Culver. S. C. Childs. Robbins & Hoppock. J. S. Gano. S. R. Reed. Rynear H. Hill William Hartpence. Clark B. Johnson. Jos. A. Melick & Son. J. J. Rittenhouse. William Durling. John L. Reed (retired). Lambert D. Matthews.		6 1 1 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3	fair bad filthy bad fair fair fair fair bad filthy bad fair bad fair bad bad bad bad	yes yes yes no no yes yes yes yes yes yes yes yes yes yes	no partly yes no	filthy fair good good filthy good bad fair fair	ne ne ne ne ne ne ne ne ne ne ne ne ne n
West New York unterdon County— Annandale	West New York Packing Co. A. Lewis Ramsey. Louis E. Merrill Samuel Neigh. S. G. Lunger. J. V. Aller. Harry Warner. William Loper. L. M. Hoffman & Son. S. Frank Opdyke. Charles Ulmer. Hull & Beach. Charles Ely. Harry R. Lambert. Elmer E. Culver. S. C. Childs. Robbins & Hoppock. J. S. Gano. S. R. Reed. Rynear H. Hill William Hartpence. Clark B. Johnson. Jos. A. Melick & Son. J. J. Rittenhouse. William Durling. John L. Reed (retired). Lambert D. Matthews.		3 1 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	fair bad filthy bad filthy bad fair fair fair fair bad fair bad fair bad fair bad fair cair fair fair fair fair fair fair fair f	yes no no yes yes yes yes yes yes yes yes yes	no partly yes no partly partly	filthy fair good good filthy good bad fair fair	ne ne ne ne ne ne ne ne ne ne ne ne ne n
West New York unterdon County— Annandale Califon Clinton Frenchtown Frenchtown Holland Lambertville Lineville Lineville Lineville Lebanon Milford Mt. Pleasant Pattenburg Pittstown Ringoes Raven Rock Rosemont Sergeantsville Stockton Refrenchtown Herbistown Herbistown	West New York Packing Co. A Lewis Ramsey. Louis E, Merrill. Samuel Neigh. S. G. Lunger. J. V. Aller. Harry Warner. William Loper. L. M. Hoffman & Son. S. Frank Opdyke. Charles Ulmer. Hull & Beach. Charles Ely. Harry R. Lambert. Elmer E. Culver. S. C. Childs. Robbins & Hoppock. J. S. Gano. S. R. Reed. Rynear H. Hill. William Hartpence. Clark B. Johnson. Jos. A. Melick & Son. J. J. Rittenhouse. William Durling. John L. Reed (retired) Lambert D. Matthews. William Hart. J. P. Buck.	354 410 100 122 394 344 188	3 1 0 2 2 2 2 2 3 6 1 1 1 2 2 3 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	fair bad filthy bad fair fair fair fair fair fair bad fair bad fair bad fair bad fair bad fair bad fair	yes yes no no yes yes yes yes yes yes yes yes yes yes	no partly yes no partly partly partly	filthy fair good good filthy good bad fair fair	ne ne ne ne ne ne ne ne ne ne ne ne ne n
West New York Unterdon County— Annandale Califon Clinton Everitatiown Frenchtown Holland Lambertville Lineville Lineville Lebanon Milford Mt. Pleasant Pattenburg Pittstown Ringoes Raven Rock Rosemont Sergeantsville Stockton """ Gercer County— Harbourton Hightstown Hightstown Hightstown Hightstown Hightstown Hightstown Hightstown Hightstown Hightstown	West New York Packing Co. A. Lewis Ramsey. Louis E. Merrill Samuel Neigh. S. G. Lunger. J. V. Aller. Harry Warner. William Loper. L. M. Hoffman & Son. S. Frank Opdyke. Charles Ulmer. Hull & Beach Charles Ely. Harry R. Lambert. Elmer E. Culver. S. C. Childs. Robbins & Hoppock. J. S. Gano. S. R. Reed. Rynear H. Hill. William Hartpence. Clark B. Johnson. Jos. A. Melick & Son. J. J. Rittenhouse. William Durling. John L. Reed (retired) Lambert D. Matthews. William Hart. J. P. Buck. William F. Dillatosh.	35/ 41(1 100/ 122/ 399 344 344 188 218 218 218 218 219 219 40 120 366 219 410 40 120 366 310.	1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	fair bad fithy bad fair fair fair fair fair fair bad fair bad fair bad fair bad fair bad fair	yes no no yes yes yes yes yes yes yes yes yes yes	no partly yes no partly partly	filthy fair good good filthy good bad fair fair	no no no no no no no no no no no no no n
West New York unterdon County— Annandale	West New York Packing Co. A Lewis Ramsey. Louis E, Merrill. Samuel Neigh. S. G. Lunger. J. V. Aller. Harry Warner. William Loper. L. M. Hoffman & Son. S. Frank Opdyke. Charles Ulmer. Hull & Beach. Charles Ely. Harry R. Lambert. Elmer E. Culver. S. C. Childs. Robbins & Hoppock. J. S. Gano. S. R. Reed. Rynear H. Hill. William Hartpence. Clark B. Johnson. Jos. A. Melick & Son. J. J. Rittenhouse. William Durling. John L. Reed (retired) Lambert D. Matthews. William Hart. J. P. Buck.	35; 410 418 100 122 39; 344 344 39; 18 47 18 18 47 18 18 47 21 41 40 12 41 40 12 40 12 40 12 10 10 10	3 1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	fair bad filthy bad fair fair fair fair fair fair bad fair bad fair bad fair bad fair fair fair fair fair fair fair fair	yes yes no no yes yes yes yes yes yes yes yes yes yes	no partly yes no partly partly partly	filthy fair good good filthy good bad fair fair	no no no no no no no no no no no no no n

LOCATION.	NAME OF OPERATOR.		f Inspections.	i, First n.	Recommended.	Recommendations Complied With.	ı on tion.	ranted.
		Number.	Number of	Condition, I Inspection.	Changes	Recomme Complied	Condition on Reinspection	License Granted
Mercer County -Con.		-	-		<u> </u>			
Etra	Simon Yakomib	161	0			 		no
Lawrence Township	Andrew F. Stout	311	0					no
Pennington	Charles Leaming Geo. O. Atwood	309	0	********				no
**	Beni. F. Taylor	208	0		l			no
Princeton	Al Leigh	174	0	********				no
Princeton Township	Wm. H. Hahn	220	0					no
Trenton	Al Leigh	286	3		yes		Rood	yes
***************************************	Chas. Wagner	201	2	bad fair	yes yes		bad	no yes
**	A. Hohrovitz	289	4		yes	yes	good	yes
44	A. Hohrovitz Fred Keterer Fred Weckerlin	290	2	bad			bad	no
** ************************************	Fred Weckerlin	291	0					no
***************************************	Fred Neuner		2	bad	yes		bad	no
	Jos. Berger Goldsmith & Stein	317 293	6	bad	yes	partly	bad bad	no
		419	6	fair	Ves	partly partly		no
44		477	1	air				no
4	Jacob Lampart	480	1	bad	yes			no
**	John A. Hartman	481	1	bad	yes			no
Middlesex County—								
Cranbury	Jeremiah Murphy	211	0		ļ			no
** ************************************	E. C. Wilson	212	ŏ					no
	Chas. W. Stout	324	1	bad	yes	· • • • • • • • • • • • • • • • • • • •		no
Layton	Thomas Conover	323 493	0	•••••		l	• • • • • • • • • • • • • • • • • • • •	no no
Willtown	Thomas Conover Mr. Mount.	142	0	bad	yes			no
** ******** *******	Maruu Muner	291	ô		300			no
New Brunswick	Samuel Lederer	444	3	bad	yes		Rood	yes
Manuscrath Town address	Morris Hann	484	2	filthy	yes		filthy	no
Spottewood	Wm. Van Dyke	322 414		fair bad	yes	yes partly	good	yes no
Perth Amboy	Abraham Werthein	113		bad	yes	yes	good	yes
" "	Max Fogel	460	3	fair	yes		good	yes
Monmouth County		1				1		
Monmouth County— Adelphia	Charles Bearmore	255	0					no
**	Jos. Erickson	256	ŏ					no
Allentown	J. H. Pierce	285	ŏ					no
Belmar	Frank Cohen	299	0					no
Ketontows	Samuel Silverstein	298 359	1			nertly	fo!=	no
Englishtown	David R. Richmond		9	bad		partly	fair fair	no
**	Clayton Palmer	116	$\tilde{2}$		yes	partly	fair	
**	John Tafel.,	3×5		bad	yes			no
	John Tafel George Clayton David Erickson	496		•••••	• • • • • • •			no
Imlevetown	Wm. Perant	254 117	0	•••••				no
14	Paul Clayton	118	ŏ					no
Freehold	Samuel Šagotsky	487	ŏ					no
**	J. M. Johnson & Son	189	2	bad	yes		bad	no
Mariboro	H. G. Magee H. A. Eigard	205	2	bad	yes		bad	no
Milhurst	Samuel Zlotkin	461 276	1		yes		good	no yes
Moroanville	Frank Linzmayer		2	bad	yes		bad	no
Neptune Township	Abraham Schlossbach	124	ō					no
		125	2	fair	yes	partly	fair	no
Oceanport	L. Snapiro	860	2 3	fair	yes		good	yes
ontewarding	L. Shapiro	101 102	9	bad	yes	partly	bad	no no
Tennent	Samuel Berkowitz	275	2	bad	yes	no	bad	no

TABLE 8.—SHOWING LOCATION AND CONDITION OF SLAUGHTER HOUSES— Continued.

			spections.	at t	Recommended.	tions h.		∰. • • • • • • • • • • • • • • • • • • •
LOCATION.	NAME OF OPERATOR.	Number.	Number of Inspections.	Condition, First Inspection.	Changes Reco	Recommendations Compiled With.	Condition on Reinspection.	License Granted
Morris County—			-		_			_
Butler	Howard Tintle	377	0					no
44		378	0					no
		379						no
		380 483		bad				no
Flanders	Harry Read	158		Dau	,00			no
44	Watson Huff	159						
German Valley	Daniel Fleming	221	. 0					no
_ " " ·	. Geo. Lance	222	0					no
Green Village	John Weber	259						no
Madison	Miller Bros	363 495						no
Mendham	Chas. Day		13	bad	yes		bad	no
Monwietown	May Mints	010	Õ		J C.5			no
44	Wm. Howlet	260	2		yes	no	bad	no
Pequannock	Geo. R. French	209						no
Stanhope	Wm. Howlet. Geo. R. French. Geo. P. Hart. J. M. Holmes, Jr. Chas. Michale	225			ļ			no
stiring	J. M. HOIMES, Jr	257 258	0		!			no
Washington Valley	Samuel Smith	431	2	bad	yes	no	bad	no
,, and a second		. 101	~	Date	ار		-	
Ocean County—				l				l
Manahawkin	John Cramer	233						no
Mayetta	S. Budd Cramer	232			•••••			no
New Egypt	Samuel Robbins	, 144 145						no
44	Elmer Erickson	146		•••••				no
Tuckerton	. N. S. Jones	283						
"	Thos. Cole	288	\$ \ Q	·,				no
Decesia Country		Ì		1				
Passaic County— Haledon	Alex. Gaiz	316	6 0	ł	-			
Little Falls	Mike Levenstein	961			yes	no	bad	no no
Macobin	Richard Brower Henry Muhs Co. D. Fullerton Co.	20%			,,,,,	l		no
Paterson	Henry Muhs Co	166		good	no		good	yes
**	D. Fullerton Co	167			no		good	yes
	Paul Mazey	16			yes	yes	good	yes
Nowfoundland	Israel Oremson	488 207			yes			l no
Prospect Park	Walter Pimksma	196						no
11 11 11	Albert Algera	197	ć				1	no
Totowa	Max Levenstein	165	, 2	bad	yes	yes	good	yes
Salam Country				1	!	1		
Salem County—	Issae Steinenuder	. 440) 1	bad	' ves	j	ļ	no
Alloway Township	Isaac Steinsnyder	203			yes			no :
" " "	. Alloway Supply Co	204			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			no
Elmer	. Abram Bolwick	424			yes			no
_ "	Cremer Bros				yes	ıl		¦ no
	Eugene McFarland	164				ļ	· · · · · · · ·	no
	Wm. Glick	870 429						no
Norma	Lewis Fisher	439			yes			no
Pedricktown	Lewis Fisher	181						no
Salem	Bonham & Young	333	٠ (no
44	Wm. Binkhart	339	9. 1	bad	yes			no
44	'Salem Supply Co	340), (),				no
	Robert P. Breslin	43			yes			
************************	J. H. Stretch	430			yes		·	no
Sharntown	Waddington & Lounsburry	13		bad bad	yes			no
Woodstown	H. H. Rook Dixon & Moncreef	13		bad	yes			no
11 VV401V 11 11					, 0	· · · · · · · · · · · · · · · · · · ·		

TABLE 8.—SHOWING LOCATION AND CONDITION OF SLAUGHTER HOUSES—Continued.

	- :- 							_
LOCATION.	NAME OF OPERATOR.	Number.	Number of Inspections.	Condition, First Inspection.	Changes Recommended.	Recommendations Compiled With.	Condition on Reinspection.	License Granted.
Somerset County—								
Belle Mead	Edgar Cain	348	0					no
East Millstone	John M. Garretson	119	0					no
Martinsville	John Van Nest	888	2	bad	yes		fair	no
	William Henry	889	0					no
Wbd- 04d	John Mundy	390	2	perg	yes		bad	no
Neshanic Station	L. Kynearson	171	0					no
North Dromak	Moibus & Co	802	0	·····	,			no
NOTE DISTILLATION	Seni i orino	800 801	0	•••••				no
Skillman	Saul Levine H. A. Duryea	847	1	bad	VOC	·		no
Somerville	Geo. Anton	218	ó		,,,,,			no
	Edward Kinsey	214						no
Bridgewater Township	John Van Nest	396						no
Warrenville	Fred Kipsey	494	Ŏ			l		no
			1				'	i
Sussex County-	i			!	'	i	1	
Andover	James Suttor	223	0					no
44	Oscar Hovey	224	0		•••••			no
	W. K. Longcor	269	2		yes	partly	fair	no
Prophyllo	Andrew L. Dobbins	111 280		bad	yes		bad bad	no
Diwitch Ante	Martin Reed	281	۱í		yes yes	parmy	Dad	no
Franklin Furnace	Jos. Kornhiser	449			yes			no
Glenwood	W. Forshee.	131	1 2		yes	no	bad	no
**	Abner Vealey	133	2	bad	yes		bad	no
**	Alvah Green	429				l		no
Hamburg	Oakley Myers Harry Reed	162	0					no
	Harry Reed	163	2		yes	partly	bad	no
44	George Mills	426		bad	yes			no
***************************************	Phenivus Peningwu	. 5 00						no
Huntsville	A. Hull	268					bod.	no
Montes	E M Welson	132 178			yes	partly	bad	no
110 # 1011	Wm Vickery	372			100	partly	1011	no
	Erving Kishpaugh	470			Ves	·		no
Lafavette	Henry Wernlein	179	2		ves		bad	no
**	Wm. Vickery. Erving Kishpaugh. Henry Wernlein. Fred M. Pellet. Frank Lockburn.	180	2	bad	yes		fair	no
	Frank Lockburn	410			yes	paruy	, Dau	no
sparta Township	Norman Search	249	0		ļ			по
44 44	Robert Lantz.	250	ļ		ļ	·		no
	Peter Hammel	251	0					no
44 44	James Goble	252 258	0	,				no no
Stockholm		121	i			1		no
Tranquility	Geo. M. Lewis	267	2		yes	partly	fair	no
Quarryville	Mathias S. Rogers	421		bad	yes		bad	no
Sussex	Jacob Martin	134	3	bad		partly	fair	no
**	Amza Avers (retired)	362	2 0	ļ <u>.</u>			٠	no
.4	Wm. H. Johnson	432			yes		bad	no
	John Bedell	433			yes		bad	no
44	R. DugdaleClarkson Potter	466			yes	no	bad	no
	CIBIRSUII FULLET	467	1	fair	yes	•		no
Union County-		l	!	1	1	1	•	ļ
Elizabeth	Max Charles	140	o lo	1		l		no
44	Charles Foldman	141						no
Linden	Cohen & Berman	478	3 2	bad	ye	yes	good	yes
Plainfield	Ernest T. Hand (retired)	150) 8	bad	yes	no	bad	no
Roselle Park	Cohen & Berman Ernest T. Hand (retired) John Keeler John Bender.	18			ye			. no
** **	John Bender	130	3 2	bad 12	ye	s no	bad	no

TABLE 8.—SHOWING LOCATION AND CONDITION OF SLAUGHTER HOUSES—Continued.

LOCATION.	NAME OF OPERATOR.	Number.	Number of Inspections.	Condition, First Inspection,	ad yes partly bad ad yes bad bad dyes bad ad yes bad ad yes bad dir yes bad dyes bad dyes bad dyes bad dyes bad dyes bad dyes bad dyes per good dyes po bad yes no bad dyes no bad dyes no bad dyes no bad yes no	License Granted.		
							1	
Warren County—						market and	i :	
Blairstown	Lester Huff	265	, 2	bad				no
***************************************	M. C. Hartman	427	- 2	bad				no
Belvidere	Herman Richards	278	- 2	bad	yes	********	bad	no
		279	0			**********		no
Columbia	Frank Brands	398	0			******		no
Hackettstown	Rice & Deremer	149	- 2	bad	ves	*********	bad	no
14	Klotz & Ackley	341	- 2	bad			bad	no
44		343	· 6					no
Haineaburg	Ogden B. Brands	397	ĭ	fair	Ves	1 33333		no
Hone	Chas. Westbrook	147	i	bad				no
110pc	H. T. Smith (retired)	148	ô	out				
Markshoro	Edward Rice	194		bad		*********		no
	John Kishpaugh			bad		**********		no
Now Village	Joseph Paena.	231	2	bad			good	yes
Owford	Daniel Pettinger	277	2	bad				no
Oxioru	Empire Steel and Iron Co.		-4	Data	2 cm	по	Date	110
Oxford Furnace		393	1	bad	ves	no	·	no
	(retired)		1	* *	50.00			
Phillipsburg	Wilson Croner	490	1	fair	yes	*******		no
Townsbury	Edward H. Morgan	177	0					no
Vienna	John Lamosson	175	1	fair	yes			no
**	Lewis E. Merrill	176	1	bad	*****			no
	Edward Morgan	417	0			•• •••••		no
Washington	Clark Shafer & Son	151		fair				no
"	Hance Bros	387	2	fair			fair	no
46	Wm. Mowder	489	1	bad	yes			no

A summary of the above table, showing in concise form what has been dine during the year, is stated in table 9, which follows:

TABLE 9.—SHOWING THE NUMBER OF INSPECTIONS AND THE COMPITIONS OF SLAUGHTER HOUSES THEOUGHOUT THE STATE.

		rstá zot.2
		\$005YE
Number found in good condition on the first inspection		9
Number found in fair condition on the first inspection		41
Number found in bad condition on the first inspection		
Number found in a filthy condition on first inspection		7
Number retired, condition not reported	• • • • • • • • •	2
Total number inspected.		195
Number on record which have not been inspected		
T:tal number on record		372
Number of slaughter houses in which changes were recomm		
Reinspections showing all recommendations complied with.		25
Reinspections showing recommendations partly complied wit	h	23
Reinspections showing no recommendations complied with.		24
Licenses granted		36
S.	laughter	
	houses.	Vicits.
Number of slaughter houses inspected once	102	102
Number of slaughter houses inspected twice	71	142
Number of slaughter houses inspected three times	18	54
Number of slaughter houses inspected four times	2	S
Number of slaughter houses inspected six times	2	12
Totals	195	318
Condition of slaughter houses on last inspection:		
Good		30
Fair		20
Bad		40
Filthy		3
Filtuj	• • • • • • •	J

Inspection of slaughter houses in this State shows that many of them are not provided with an adequate water supply. In some places water is carted in pails or other vessels for distances of three hundred yards or more, and at some of these places no vessels which could be used for hauling water could be discovered. It is evident that the use of adequate amounts of water for cleansing purposes under these conditions entails so much labor that it is seldom done. In many cases waste liquids are permitted to flow into hog troughs adjoining the slaughter houses; in other cases,

waste fluids are permitted to flow on the ground, and in some instances such liquids drop through the leaky floors of the slaughter house and form putrefying pools under the buildings. In many of the slaughter houses the floors were constructed of rough boards, the crevices between which were filled with decomposing blood and filth. Sidewalls were found constructed of rough boards which were incrusted with dried blood and filth. Even where the sidewalls were of smooth and impervious material, in many instances, they were exceedingly dirty. This was usually found to be the case where the supply of water was inadequate or so located as to be difficult of access. Ceilings in many cases were rough and were permitted to accumulate dust and cobwebs.

In nearly all the slaughter houses inspected during the fly season, large numbers of flies were present in and around the buildings. The accumulation of filth and offal which is permitted around many of these buildings affords excellent opportunities for flies to breed, and they have free access to the meats through the unscreened windows of the slaughter houses. exposed to the depredations of flies in this manner cannot fail to be impaired in quality, as the flies undoubtedly deposit large numbers of putrefactive bacteria thereon. In warm weather blow flies also infest slaughter houses in large numbers, and lay their eggs, which hatch out into maggots within a few hours, in any meat to which they have access. It is, therefore, very important that tightly fitting screens be provided for all openings in slaughter houses, and it is equally important that refuse material in which flies may breed be not permitted to accumulate in the vicinity.

Another improper practise indulged in by many operators of slaughter houses in the State is the keeping of hogs in pens immediately adjoining the slaughter houses. Into these hog pens the offal from the slaughter houses is thrown for the hogs to eat, and blood and wash water from the floors is furnished to them to drink. This always results in an intolerable nuisance, as a hog pen operated in this manner must necessarily be always in filthy condition, and the putrefying semi-liquid mass of mixed earth and offal which covers the ground forms an excellent breeding place for flies. In many places manure piles are also maintained, which likewise afford breeding places for flies. Such manure piles usually contain considerable quantities of offal, the decomposition of which results in the emission of foul odors. At one place in-

spected during the summer, over ten wagon loads of offal consisting of stomachs, lungs, intestines, stomach contents and similar material was found in a pile immediately adjoining a slaughter house. This represented an accumulation of several months. The pile was alive with maggots, about four bushels of maggot shells being visible. The odor in the vicinity of this establishment was almost unendurable. The building was unscreened and animals were slaughtered within it and the dressed meat permitted to hang uncovered and without any protection for hours. Numerous other objectionable conditions were found, but those above cited will serve to indicate the habits of many of our slaughter house operators.

In order that slaughter houses may comply with the requirements of law and may be operated in such a manner that a clean and wholesome product will be assured, it is believed that they must at least comply with the following requirements:

- 1. Whenever possible, city water should be piped into the buildings and conveniently located outlets should be provided to which hose can be attached. If city water cannot be obtained, a pump drawing water from some unpolluted source and provided with a hose attachment should be located within the building. In such cases, an elevated tank for the storage of water is recommended. Any system of obtaining water which involves carrying it to the slaughter house in pails, barrels or other containers is not adequate, and will not be approved.
- 2. The floors of slaughter houses should be laid with such a slope that quick drainage will be secured, and the floor drain should be trapped and connected with a public sewage system, wherever possible, by means of an iron or tile drain properly laid. If an outlet cannot be had into a sewer, a properly constructed covered cesspool should be provided, so located that it is not liable to cause contamination of the source of water supply. Under no circumstances will the sewage from a slaughter house be permitted to flow into a stream or upon the surface of the ground.
- 3. The floors of slaughter houses, in order to comply with the law, must be made of some smooth, impervious material which is tight and can be flushed and washed clean with water. Cement floors are recommended in all cases, and insisted upon in new slaughter houses. Where existing wooden floors are tight, smooth and properly sloped, their use will be permitted.
- 4. The side walls of killing rooms must be faced to a height of at least five feet with smooth material which is impervious to water, and which can be readily cleansed. Cement is recommended. Sheet metal is also sometimes used. In existing slaughter houses, a siding of smooth matched boards, if the cracks are filled and the whole surface well covered with oil paint, will be permitted.
- 5. Pens for hogs not intended for immediate slaughter must not be maintained within one hundred feet of a slaughter house.

- 6. Hogs must not be feed upon slaughter house offal or refuse, unless it has been sufficiently cooked to sterilize it, and in no case must more than one-third of the ration of hogs be made up of such refuse. The feeding of raw slaughter house refuse is a frequent cause of disease in hogs. Among the diseases which hogs are known to contract in this manner are tuberculosis, hog cholera and trichinosis. Many varieties of tape worms are distributed if hogs are permitted to eat slaughter house refuse, the hog being the intermediate host.
- 7. Manure and offal must not be permitted to accumulate in the vicinity of slaughter houses, but must be removed daily.
- 8. If rendering is done, it must be performed in rooms separate and apart from the killing room, and rooms where edible products are stored or handled.
- 9. The manufacture of edible meat products will not be permitted in killing rooms.
- 10. During the fly season, all openings in slaughter houses must be properly screened, and all screen doors and windows must be kept closed.
- 11. Whenever dressed meats are kept in the slaughter house longer than twelve hours, adequate refrigeration must be provided.
 - 12. All meat must be thoroughly protected from flies.

Because of space limitations it is not possible to describe all the slaughter houses inspected. A few descriptions of slaughter houses are given below as illustrations of the conditions which exist in the various kinds of abattoirs located in the State.

John Bender, Roselle, Union County. At this house about 250 lambs, 80 calves and 90 hogs are killed per week. The slaughter house was found on first and second inspections to be in a filthy condition. The floors were very dirty, no screens were provided. Open doors and windows permitted the entrance of flies and of offensive odors from the hide room and from out doors into the killing and hanging rooms. The odor in the vicinity of the slaughter house was very offensive. Pieces of meat hanging in the killing room were completely covered with flies. The floor was littered with putrefying viscera, which emitted foul odors. The sewer connection was imperfect, permitting blood and waste liquids to drain onto the ground under the killing floor where it was churned into mud by hogs. This putrefying mass of filth was a breeding place for flies, and was filled with maggots at the time of inspection. A hog-pen immediately adjoined the slaughterhouse, and hogs had free access to the space beneath the killing floor. Refuse material was fed to these hogs at times. Facilities were provided for making hot water, and the water supply was abundant. There was, therefore, no excuse for the extreme uncleanliness observed.

After the first inspection certain changes were recommended, but these changes were not complied with. After the second inspection notice was served on the owner that if this slaughterhouse was not so repaired and cleansed as to bring it in compliance with the law, prosecution would follow.

Herman Richards, Belvidere, Warren County. This slaughter-house is built of concrete. Many defects were discovered in its construction and management. The killing room was full of flies. The odor about the plant was exceedingly offensive, a hog-pen just outside the slaughter-house was littered with viscera, bones, and blood in all stages of putrefaction. Inside the killing rooms were several barrels of inedible grease and cracklings which emitted foul odors. At the time of inspection calves were being dressed in the killing room. Notice was served on the owner that certain changes would have to be made in order that he might comply with the law.

Abner Vealy, Glenwood, Sussex County. At the time of the first inspection this slaughter-house was in course of construction. When a second inspection was made, four months later, the building was completed, but there was no water nearer than two hundred feet. No cesspool was provided. Although the owner was conducting the business of slaughtering calves, he was not killing them in his slaughter-house, which was apparently kept for exhibition purposes. Upon investigation it was found that calves were being slaughtered in the open air in an orchard about three hundred yards from the slaughter-house. Animals killed at this place are exposed to flies, and fly-blown carcasses and carcasses containing maggots have been found which were shipped by the owner of this slaughter-house.

At the time of the third inspection, some four months after the second, the slaughter-house was still being used chiefly for exhibition purposes, killing being done in a filthy corner of a dilapidated barn, where a hoist for raising calves had been rigged. Here the floor and sidewalls were spattered with blood and filth, and decomposing calves' feet were lying upon the floor. The place was permeated with foul and offensive odors. The owner was served with a notice to make certain changes in his slaughter-house, and to discontinue these improper practices within twenty days.

S. G. Lunger, Clinton, Hunterdon County. At the time of the first inspection of this place it was found in filthy condition, and a hog-pen adjoining was also filthy. Certain changes in the slaughter-house and surroundings were made to the owner after the inspection was made. At the time of the reinspection, six months later, the place was still in a filthy condition, and little effort had been made to comply with the law, and with the recommendations made by this Board. After the second inspection the owner was notified to discontinue slaughtering until such time as he had complied with the orders of the Board.

Samuel Hunt, Haddonfield, Camden County. This slaughter-house is simply one corner of a barn where horses are stabled. It is only used occasionally for slaughtering purposes by one butcher, who kills animals there to supply his retail trade. The owner was notified that this was not a fit place in which to kill animals intended for use as food, and that he must either provide himself with a suitable slaughter-house or discontinue slaughtering.

Joseph Berger, Trenton, Mercer County. This slaughter-house is situated on an alley, and is surrounded by ground which is poorly drained and on which, because of the number of animals stabled nearby, there is a large daily collection of manure. number of animals slaughtered is large, making the daily removal of offal very important. This, however, is not done. Carcaeses which have been condemned because of disease have been permitted to lie on the floor of the killing room for two or three days. Diseased parts of animals have been removed and hidden from the city meat inspector, and have subsequently been found by the inspector attached to this division. Diseased animals, not fit for use as food, and immature calves have been slaughtered here and dressed and sold for food. The owner of the slaughter-house has made the structural changes recommended by the State Board of Health, but the persons using the slaughter-house have failed to operate it in such a manner as to insure the wholesomeness of the meats there produced, and a license to this establishment has, therefore, been withheld for the present.

Morris Hann, New Brunswick, Middlesex County. This building is a wooden structure, and was found on first inspection to be in a filthy condition. The floor is of wood, rough and uneven, and

the crevices between the boards were filled with blood and filth. Refuse material was piled in one corner of the killing room. The side walls were of rough boards encrusted with dried blood. About ten wagon loads of decomposing offal were piled just outside the door, emitting odors which could be detected several hundred feet away. At the time of inspection two dressed carcasses of immature calves, and a tubercular beef carcass, were hanging in the killing room ready for sale. These carcasses were condemned and denatured by our inspector. The owner of this slaughter-house was notified to discontinue slaughtering, and to clean up the premises, and the Attorney General has been requested to bring proceedings against him for operating a slaughter-house without a license.

Wagner & Meyer, Trenton, Mercer County. At the time of the first inspection of this slaughter-house certain unsanitary conditions were found, and it was evident that the building was not properly cleaned after killing. The room used for rendering purposes was dirty. The following recommendations were made to the owners of this slaughter-house:

- 1. That the windows of the killing-room and lardroom be provided with screens.
- 2. That the lardroom be thoroughly cleansed, whitewashed or painted, and kept clean.
 - 3. That all refuse material be removed daily.
- 4. That the floor of the killing-room be cleansed immediately after killing is completed.
- 5. That the rack upon which calves are slaughtered be thoroughly cleansed and kept clean.
 - 6. That all utensils used about the building be kept clean.
- 7. That all doors when not in use be kept closed or else screen doors be provided.

A reinspection of the premises showed that all these recommendations had been complied with, and a license was issued to the owners.

Abraham Wertheim, Perth Amboy, Middlesex County. On first inspection this slaughter-house was found to be a dilapidated old shed in filthy condition, and so located as to be a nuisance. The owner was cited to appear before the State Board of Health to show cause why a license to operate this slaughter-house should not be refused. He agreed to build a new slaughter-house in a

more suitable location, and did so, first submitting plans and specifications of the proposed building to the State Board of Health for approval. His present slaughter-house is a thoroughly satisfactory structure, built of concrete with smooth floor and sidewalls, and provided with abundant water supply and proper drainage. A license has been issued for this slaughter-house.

MEAT INSPECTION.

During the numerous visits of our slaughter-house inspector to establishments where meats are prepared for food purposes, he had opportunity to make examinations of the quality of meats which were being prepared. During the year the traffic in immature calves was also investigated, particularly in Hudson county. These investigations showed that large numbers of immature calves were being sent to the larger cities of the State from the milk producing districts. In a number of cases where the shipment of immature calves was detected sufficient evidence was obtained to warrant the State Board of Health in authorizing prosecutions against the shippers.

A table showing in detail the number of meat inspections and the results of these inspections is given below:

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What little work we have been able to do in the inspection of meats indicates only too plainly the necessity for State wide inspection of all meat which is slaughtered for use as food. There can be no doubt that large numbers of diseased animals are prepared for use as food in this State, and this practice should be stopped. It is earnestly hoped that the Legislature in its next session will take some action which will result in a more adequate supervision of our meat supply.

INSPECTION OF CANNING FACTORIES.

During the 1909 session of the Legislature a supplement to the food and drugs act was passed which regulated certain sanitary conditions in all establishments where food intended for sale or distribution is produced, stored or handled. It was learned as a result of attempting to enforce this act during 1910 by inspections of a number of the larger food producing establishments and canning factories that there were numerous conditions which needed changing, and if changed, would result in a marked improvement in the sanitary quality of the output. Throughout the present year a considerable amount of time has been given over to the investigation of canning factories.

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The preceding table shows that forty-one canning factories were inspected during the year. Our inspections, the results of which are above tabulated, show at thirty-five of the establishments tomatoes are canned, nineteen make tomato pulp, four manufacture tomato catsup, twelve can vegetables of various kinds and one packs tomato seed and manufactures catsup as a by-product. At thirty-one of the factories the floors were of wood, and in numerous instances not tight, while in thirty-five of the factories the side-walls were rough. Permanence and security against leakage through the floors are important. All floors should be smooth and impervious to water. It is hardly necessary to say that the cleanliness of the floor itself is essential. In only fourteen factories were wash rooms provided for female help, and in but ten factories were similar accommodations provided for the men. Attention is directed to the fourth section of chapter 231 of the laws of 1909. It reads:

"All operatives, employes, clerks, or other persons who handle the material from which food intended for distribution or sale is prepared, or the finished product, before beginning work and after visiting the toilet, shall wash their hands and arms thoroughly with clean water and soap, and every owner or manager of any place in which food is produced, manufactured, prepared, packed, stored, distributed or sold shall provide adequate facilities for such washing, and it shall be the duty of every such owner and manager to take all reasonable means to compel all operatives, employes, clerks or other persons handling the material from which food is prepared, or the finished product, to perform such washing as aforesaid. All toilets, lavatories and wash rooms shall be separate and apart from the room or rooms where any process incident to the production, manufacture, preparation, packing, storage, sale or distribution of such food are carried on, and such toilets, lavatories and wash rooms shall, at all times, be kept in a clean and sanitary condition."

Using the classification of clean, fair or dirty to broadly indicate the condition of the factory surroundings, it can be observed from the table that twelve appear in the clean, twenty-three in the fair and six in the dirty class. Cleanliness of the grounds about the factory is worth all the care required to secure and maintain it. If there must be outbuildings or any other fixtures or places they should at all times be kept in a clean condition. In the country where water-carriage is not available the privy should be arranged as a dry earth closet and all household slops and miscellaneous rubbish should be excluded from it.

As the result of our inspections it has been learned that at only sixteen factories is the stock sorted so as to remove the sound from the partly decomposed or unsound stock. Some manufacturers make no attempt to reject the decayed portions of their fruit, and

hence their final product is of an inferior grade. Sometimes the peelings and trimmings from this stock are made into pulp. It is quite obvious, where pulp is made from trimmings of decayed and partially decomposed stock, that it will invariably appear badly when viewed by the microscope. In some factories it is the duty of the peelers to sort, cut and reject the unsound stock at the peeling table. In the opinion of the writer this is the wrong place for sorting to be done. Stock should be sorted before reaching the peeling table. Equally important is the washing of all material intended for canning. At the present time a variety of washers A good washer should be constructed so as to remove are in use. all sand and dirt. Under no circumstances should stock pass into the scalder with dirt or sand clinging to it. Tomato pulp is made either from whole sound stock or from skin and core refuse, usually by running the stock through a cyclone or pulper, after which it is concentrated, salt added, placed in cans and processed. siderable discussion has arisen in the trade as to whether it is proper to manufacture tomato pulp from skin and core refuse. There would seem to be no objection to this procedure if the pulp be made from the skins and cores of whole sound tomatoes properly handled.

Tomato paste was manufactured at one factory operated by George Roncoroni during the present year in the following man-The tomatoes are brought to the factory by farmers, emptied into the washer and scalded, after which they pass to the sorting table where the sound fruit is separated from the unsound. sound tomatoes are placed in a square wooden tank. The separated unsound tomatoes pass to another table where the partially decayed and decomposed parts are removed by cutting. maining sound tomatoes are then placed in the above mentioned square wooden tank. The tomatoes in the square tank are partially cooked by steam after which they pass through a cyclone where they are peeled and the skins and seeds removed. The resulting pulp is then put into muslin bags and placed on a cement floor and pressed, barrels filled with water being used for weights, for from twelve to fifteen hours. After the pressing process, the purpose of which is to remove the excess water, the pulp, which is now substantially paste, is placed into wooden bins where it is mixed with salt. After admixture with salt, the paste is packed into cans by means of machinery, the cans sealed and processed. The method of pressing used here is crude and unclean.

A Chemical and Bacteriological Study of Eggs.

WILLIAM G. TICE, Assistant Chief.

INTRODUCTION.

Perhaps no article of diet of animal origin is more commonly eaten or served in a greater variety of ways than eggs. The egg industry has recently received much attention from the press of the country, and probably more has been learned about eggs during the past three years than ever before in the history of the egg business.

The present article will be an attempt to present (1) a brief review of the methods practiced by the "trade" in handling eggs; (2) a compilation and discussion of certain chemical and bacteriological results which the writer has obtained with eggs of known history.

HOW EGGS ARE GRADED.

Eggs should only be produced under clean and sanitary conditions. Adequate and clean houses should be erected wherein the hens can lay. When the clean, fresh eggs are gathered they should be put in a clean, dry, cool place until marketed. When eggs have been properly gathered, handled and kept, the question of grading which the "trade" undertakes becomes much simplified. Eggs are among the most difficult of food products to grade. This is because each egg must be examined separately, and because the white and yolk cannot be accurately judged without breaking the shell. There are many ways of grading eggs; the methods differing somewhat in different localities. From external appearance eggs are frequently selected for size, color, cleanliness of shell and freedom from cracks.

"Candling," as it is called, is the method commonly used in grading. The eggs are held up in a suitable device against a

bright light. The writer has devised a candling box which has worked exceedingly well. It consists of two inter-folding wooden The front of the smaller box is provided with a hole two and a half inches in diameter, sliding in front of which is a copper slide with holes of various sizes for the purpose of accommodating different size eggs during the process of candling. On the inside of the larger box facing the above mentioned opening in the smaller box is a lamp socket and a 32 c. p. incandescent light. Because of the inter-folding feature of the boxes, the focus may be conveniently changed, and thus the candler is assisted in forming his opinion of the egg in question. Almost all of the large egghouses to-day are provided with a dark room wherein an expert corps of egg candlers sort eggs into grades. The candler usually holds the larger end upward and twists it, causing the contents of the shell to rotate. These men handle eggs with much dexterity and rapidity, and at the same time it is surprising how much they can tell of the actual condition of an egg. Thus eggs may be graded into fresh or firsts, seconds and cracks, and rotten classes.

Fresh or Firsts. By the term "fresh" as applied to eggs is generally understood desirable qualities. A fresh egg when candled should be very clear, and only the slight outline of the yolk be visible. There should be very little air space noticeable. Under "firsts" are placed all clean shelled eggs of uniform size and fullness of shell.

Seconds. This grade usually includes small, irregular or undersized eggs, "dirties," "weak," "watery" and "heated" eggs. "Dirties" are those to which soil or nest dirt adheres, or whose shells are stained or smeared by coming in contact with broken eggs during transit. The white of a fresh egg is somewhat viscous, and in many cases that portion immediately surrounding the yolk is semi-solid. When this white deviates from its normal viscosity, the egg is said to be "weak," and when so broken down as to appear like water, when viewed by "candling," the egg is said to be "watery." This class of eggs are edible, but do not possess the keeping properties of fresh eggs. A "heated" egg is a fertile egg, in which growth of the embryo has begun. Heated eggs can be told by the candler by the appearance of the yolk, which is somewhat darker and more opaque than a fresh egg. This class of eggs is frequently accompanied by water and some-

times by the appearance of blood rings. When blood rings occur the egg is unfit for use as food. It may be said at this point that blood may sometimes be found in a fresh egg; this is probably due to a slight rupture of the oviduct of the hen. An egg of this character should not be confused with the so-called blood ring of the "heated" egg.

Cracks. These may be grouped broadly into three classes: (a) cracks, or those in which the shell is noticeably cracked; (b) "leakers," or those from which the white and yolk may escape; (c) "checks (blind check)," a crack not readily observable without candling. This class of eggs are sold to bakers.

There are two well defined types of rotten eggs: Rotten Class. (1) those which have gone bad as a result of bacterial growth, and (2) those which have spoiled due to the formation of moulds. rot in the egg "trade" is understood to mean an egg unfit for use There are two kinds of rots: red rots and black rots. A red rot appears reddish brown by candling, and when broken, has a yellowish, coagulated appearance. A black rot is one whose contents are almost entirely fluid and blackish in color. type of rot is very often accompanied by a hydrogen sulphide or typically rotten egg odor. Spot eggs are here included under the rotten egg heading, although this is not always done in the "trade." "Spot eggs" may be classified as "light" and heavy "spots." a "light spot" is meant an egg in which germination has started as a result of incubation, and whose yolk has a tendency to adhere to the shell membrane. A "heavy spot" is characterized by the adherence of the volk to the shell membrane.

Some attempt is also made to grade eggs according to the color of the shell. Those of hens vary from white to a light or deep brown shade. The color of the shell is an element which has some effect upon the market value of eggs. Thus, Boston is a brown egg market; New York, a white egg market, while in Philadelphia there seems to be no preference. There is a popular idea that eggs with brown shells are richer. Experiments made at the California and Michigan Experiment Stations would seem to clearly show, however, that all such conditions as care, sanitary surroundings and food being equal, there is no difference in the quality of white and dark shelled eggs.

EGGS BY WEIGHT.

The size of hens' eggs vary, depending largely upon the breed. According to a large number of American analyses, an egg on an average weighs two ounces, and has the following percentage composition: Shell, 10.5; water, 66.0; protein, 13.1; fat, 9.3, and ash, 0.9. There has recently been considerable demand on the part of the consumer that eggs be sold by weight. This would seem to be the fairest way of measuring the quantity as between the seller and the buyer. Naturally, the trade are opposed to the method, and argue it is thore feasible to grade according to size and other qualities and to sell by count. It has been pointed out that to remove eggs from their packing cases and to weigh them by themselves would be a very expensive process. This additional expense of handling would all be finally imposed upon the consumer, and while he might actually get more "white and yolk" by the weighing process than by the present count method, there might be a decided disadvantage to him in the change because of the increased cost of handling the product.

PRESERVATION OF EGGS.

The problem of keeping eggs for a considerable period, and at the end of that time have them in fit condition for use as food is one which has held the attention of the trade for years. Many methods of preservation have been used, such as packing the eggs in lime, salt or by coating with some material which excludes the air. According to the experiments made by the North Dakota Experiment Station, water glass conforms more closely to the requirements of a good preservative than any of the substances commonly employed. Of twenty methods of preserving eggs tested in Germany, the three which proved most effective were coating with vaseline, preserving them in lime water and preserving them in water glass. All of those methods depending upon the external application of some substance to the shell have been almost entirely superseded by the process of cold storage, which, properly regulated, would seem to be the best method of keeping eggs over an extended time and still have them fit for use as food.

The cold storage egg business is a development of the last twenty years, and at the present time is an enormous industry. all egg dealers realize the importance of keeping eggs cool and are now providing not only chill rooms for short holding, but a room as near 40° F. as possible for the candling and sorting of Eggs are usually packed after sorting into wooden cases, containing thirty dozen each, held in position by pasteboard fillers. They are usually stored from the first of March to the first of May, and remain in storage from six to nine months. It is the generally accepted opinion among "egg men" that eggs are at their "best" from March to May, and that eggs stored during these months keep better than eggs stored later in the season. The successful storage of eggs depends very largely on the condition of the egg when placed in storage, and other important factors are temperature, humidity and cleanliness. A constant temperature is essential, and in the best conducted storage houses every precaution is taken to keep the temperature constant. About 32° F. is generally the temperature maintained. A constant humidity is equally important as the temperature. In many of the warehouses in which the writer has been, the humidity was kept at seventy-eight. Too much moisture destroys the keeping qualities of eggs to a very large degree, causing the growth of moulds and the subsequent destruction of the flavor. An egg is very susceptible to its surroundings and will absorb odors readily. therefore important that places wherein eggs are stored should be Eggs when stored change in chemical composition, lose water by evaporation and shrink, lose their flavor and, in the language of the trade, fail to "stand up" like a fresh egg. It has been stated that eggs stored under favorable conditions lose about 10 per cent. by weight, which probably is very nearly correct. The writer stored some eggs in an ordinary refrigerator for ten months (average temperature 50° F.), and noted their loss in weight. This experiment, of course, is not strictly analogous to cold storage. Another lot of eggs were permitted to stand at room temperature (72° F.) for ten months in a clean, dry wooden box; at the end of that time they were weighed and examined. were almost "bone dry" and without disagreeable odor.

TABLE SHOWING LOSS IN WEIGHT DUE TO STORAGE FOR TEN MONTHS. AVERAGE TEMP. 50° F.

TABLE SHOWING LOSS IN WEIGHT DUE TO STORAGE FOR TEN MONTHS. AVERAGE TEMP. 72° F.

				20 2 2					
Kind.	Weight fresh.	Weight after 10 months.	Loss in weight.	P.C. loss.	Kind.	Weight fresh.	Weight after 10 months.	Loss in weight.	P.C. loss.
F	64.0	53.5	10.5	16.4	F	63.0	21.6	41.4	65.7
F	46.0	35.0	11.0	23.9	F	55.5	20.0	35.5	64.0
F	52.5	42.0	10.5	20.0	F	49.0	15.0	34.0	69.3
F	52.0	41.5	9.5	18.1	w	54.0	19.0	35.0	64.8
F	59.8	49.5	10.3	17.2	F	45.0	15.5	29.5	65.5
F	57.0	41.0	16.0	28.0	w	51.0	16.5	34.5	67.6
F	46.0	38.0	8.0	17.3	F	55.0	18.5	36.5	66.3
F	52.0	43.0	9.0	17.3	F	51.0	17.5	33.5	65.8
F	56.5	46.0	9.5	16.8	F	68.0	22.0	46.0	67.6
F	54.0	43.0	11.0	20.3	F	62.0	22.0	40.0	64.5
F	48.1	37.0	11.0	23.0	w	49.8	17.3	32.5	65.2
F	45.5	33.5	12.0	26.1	F	53.0	19.0	34.0	64.1
F	63.0	53.0	10.0	15.8	F	54.5	19.4	35.1	64.4
F	45.0	34.0	11.0	24.4	F	47.5	15.0	32.5	68.4
Averag	ge P.C.	loss		18.9	Averag		loss		65.9

PHYSICAL EXAMINATION OF EGGS.

"Candling," the process of which has already been described, is probably the best way of testing the freshness of eggs. ways have been suggested of testing the freshness of eggs. cording to Siebel, a fresh laid egg placed in a solution made up of two ounces of salt and one pint of water will at once sink to the An egg one day old will sink below the surface, but not to the bottom, while one three days old will float just immersed in This test has also been made and confirmed by De-By observing the way in which eggs act when poached has also been suggested as a means of determining the freshness of The writer has compared fresh eggs and storage eggs six. months and ten months old, respectively, and can say there is a noticeable difference in appearance of the albumen between the storage eggs and the fresh eggs. The albumen of the storage eggs disintegrated and spread. The New York State Experiment Station studied the change in the specific gravity of eggs on keeping

and found that on an average fresh eggs had a specific gravity of 1.090; after they were ten days old, of 1.072; after twenty days, 1.053, and after thirty days, of 1.035. The writer has made the following experiment on two batches of eggs. The eggs in question were two hours old when received. Each was carefully weighed and then placed in a specially devised cylinder, by which means the amount of water displaced by the egg was measured. By dividing the weight of the egg by the volume of water displaced, an average figure of 1.0721 was obtained. The eggs were permitted to stand for seventeen days and the experiment repeated, and an average figure of 1.0171 was obtained. age room temperature where eggs were kept was 70° F. eggs were in excellent condition after seventeen days.

Ag	e 2 h	ours.	Ag	e 17 d	lays.	Age 2 hours. Age 17 da			iays.		
Weight.	Vol. of water in cc. displaced by egg.	Weight of egg in gms. ÷vol. in cc.	Weight.	Vol. of water in cc. displaced by egg.	Weight of egg in gms. ÷vol. in cc.	Weight.	Vol. of water in cc. displaced by egg.	Weight of egg in gms. ÷ vol. in cc.	Weight.	Vol. of water in cc. displaced by egg.	Weight of egg in gms. ÷ vol. in cc.
48.0 53.6 53.4 56.0 66.3 47.3 60.3 61.6 55.5 58.3	45.3 49.6 49.8 52.1 62.1 43.3 56.0 57.5 52.1 54.7 age	1.059 1.080 1.072 1.074 1.067 1.083 1.076 1.071 1.065 1.065	47.3 50.7 50.3 52.9 63.1 44.2 56.6 58.0 53.0 55.3	45.3 49.6 49.8 52.1 62.1 43.3 56.0 57.5 52.1 54.7 age	1.044 1.022 1.010 1.011 1.016 1.020 1.010 1.008 1.011 1.011 1.0163	51.5 49.5 51.7 47.0 43.4 45.1 52.4 43.9 48.4	48.0 45.8 47.9 43.7 40.1 42.1 49.1 41.2 44.7 age	1.073 1.080 1.079 1.075 1.082 1.071 1.067 1.065 1.082	48.3 46.8 48.7 44.3 40.7 43.0 50.0 41.3 45.5	48.0 45.8 47.9 43.7 40.1 42.1 49.1 41.2 44.7 age	1.006 1.023 1.017 1.013 1.014 1.021 1.048 1.002 1.018

BREED-LEGHORN PULLETS.

BREED-LEGHORN HENS.

CHEMICAL EXAMINATION OF EGGS.

Plan of Work. The eggs for this investigation were obtained from a friend of the writer, who formerly maintained a large number of chickens of the Wyandotte and Faverolles breed. chickens were kept under the best sanitary conditions, well fed and given the best of care. The quality of the eggs, aside from the freshness, were of the best. The eggs, ninety in number, when received on May 3d, 1910, were two days old, and they were placed

TABLE I.—CHEMICAL EXAMINATION OF EGGS.
Wyandotte and Faverolles Breeds (F. and W.).

		•				İ	WH1	TE.	YOL	к.
AGE.	KIND.	CANDLING.	Weight of egg.	Weight of shell.	Weight of white.	Weight of yolk.	. Cc. N/20 acid required by white.	Cc. N/10 acid per 100 gms. of egg white.	Cc. N/20 NaOH required by yolk.	Cc. N/10 NaOH per 100 gms. of egg yolk.
	w	Normal	49.0 63.0	5.5	27.0 40.0		5.8 8.2	 10.75 10.25 10.15	14.8	39.40 42.25
da	F	Normal	51.3 54.0	5.0 5.0	39.3 32.0	17.0	6.5	10.10	14.0 14.0	41.20 41.20
rage mo	<u>F</u>	Normal Normal Slight shrinkage Normal Very slight shrinkage Normal Slight shrinkage Normal	64.5		41.5		7.6	10.31 9.15	18.5	41.01 38.60
mo mo	F	Normal	54.0	4.5	$28.5 \\ 31.5$	18.0	5.5	12.25 8.73	13.4	38.78 37.22
mo	F	Very slight shrinkage. Normal	16.5	6.5	24.5 36.5	18.0		10.20 8.75	12.5	38.23 35.00
mo	W	Slight shrinkage	48.5	5.5	$\frac{27.0}{26.0}$	16.0 15.0		10.40 7.95	12.0	87.50 36.70
rage		Normal Slight shrinkage Slight shrinkage Slight shrinkage Slight shrinkage Shrunk and watery Very slight shrinkage	4.9	· × · · [29.3	. v		9.66 10.30		87.40 33.40
mo	F	Slight shrinkage	18.5	4.5	27.5	16.5	5.0	9.10	10.6	32.20
mo mo	F	Slight shrinkage Slight shrinkage	45.0	4.5	27.7 28.0	12,5	5.0	9.60 8.90	7.5	33.50 30.00
mo	w	Shrunk and watery Very slight shrinkage	17.0		26.5 27.0			10.50 9.25	11.6 12.7	36.00 35.20
rage		Badly shrunk Shrinkage Shrinkage Shrinkage Normal Slight shrinkage Badly shrunk and wate	45.5		21.0		1	9.55 14.75		33.40 34.70
mo	F	Shrinkage	12.8	5.0	22.8	15.0	6.0	13.10	9.1	30.80 35.50 36.00
mo mo	F	Shrinkage	51.0	6.0	$\frac{27.5}{27.5}$	17.5	5.4	10.50 9.80	12.6	36.00
шо шо	W	Normal	19.5 15.6	4.5	28.0 20.3 19.0	16.0 15.8	4.9 4.5	8.75 11.05	9.6	36.20 30.30
mo	F	Badly shrunk and wate	ry, 36.5	3.5	19.0	14.5	3.0	7.90 10.80	8.3	28.10 33.00
mo	F	Badly shrunk and wate Shrinkage Badly shrunk Badly shrunk Shrinkage Shrinkage Shrinkage Shrinkage Shrinkage Shrinkage Shrinkage Shrinkage Shrinkage Shrinkage Shrinkage Shrinkage Shrinkage Shrinkage Shrinkage	53.0	6.3	$\frac{27.6}{22.5}$	19.1	5.0	9.05 10.10	11.0 10.3	28.7
mo	<u>w</u>	Badly shrunk	50.0	5.0	28.0	22.5	4.6	8.10	11.6	25.8
шо шо	w	Shrinkage	51.5	6.0	$\frac{23.0}{26.0}$	19,5	5.8	8.70 11.10	9.0	25.0 28.1
mo	W	Shrunk and watery Shrinkage	43.0 19.5	6.0	$\frac{21.5}{26.5}$			10.20 11.50	9.2 10.3	26.1 30.3
rage		Shrinkaga	57.0	8.0	30.8		5.9	9.82		27.0
mo	F	Shrinkage	45.2	5.1	23.1	17.0	4.3	9.80	8.6	25.2
шо шо	F	Shrinkage	14.2	5.0	$\frac{22.1}{22.2}$	17.0	4.3	10.20 9.60	9.3	26.8 27.4
mo mo	F	Shrinkage	10.0 17.5	5.0	$\frac{20.0}{24.3}$		3.5 4.1	8.70 8.50	7.9 8.7	26.4 25.3
rage		Shrinkage Slight shrinkage Badly shrunk Badly shrunk Badly shrunk Shrinkage Shrunk and watery Badly shrunk Shrinkage Shrinkage Shrinkage	18 5	6.5	25.0	17.0		9.30		26.0 26.0
mo	F	Badly shrunk	19.3	6.0	27.5	15.8	2.0	3.60	7.8	24.6
100 100	F	Badly shrunk	18.5	5.5	23.8	17.0 19.2	5.8 5.2	10.70 10.90	9.8	27.3 25.4
mo	w	Shrinkage	19.2	5.1	24.2	19.8	5.4	11.10	9.5	24.6 25.6
mo	F	Shrunk and watery	56.3	6.0	31.8	18.5	3.8	9.04 6.00 8.90	7.4	25.4 25.9

TABLE I.—CHEMICAL EXAMINATION OF EGGS—Continued.

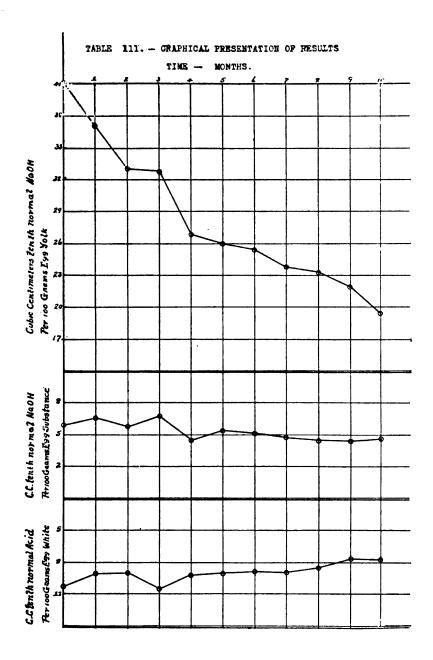
Wyandotte and Faverolles Breeds (F. and W.).

					. (-		 ,	,.			
							WH	ITE.	· YO	LK.	THITE AND YOUK.
AGE.	AGE. KIND. CANDLING.		Weight of egg.	Weight of shell.	Weight of white.	Weight of yolk.	Cc. N/20 acid required by white.	Cc. N/10 acid per 100 gms. of egg white.	Cc. N/20 NaOH required by yolk,	Cc. N/10 NaOH per 100 gms. of egg yolk.	Cc. N/10 NaOH per 100 W
7 mo	. F	Shrinkage	46,2	6.0	24.2		ı	10.80		25.6	Ī
	. F				19.2			9.10		15.0	
7 mo	. F	Very badly shrunk	55.7		31.2		5.1			21.9	
7 mo	. F	Shrinkage	46.7		24.2		4.7			25.0	
Average		Shrinkage		6.0	21.5	15.5	4.4	10.20 9.46	6.0	27.5	4.8
	. F			5.0	20.7	20.5	4.0		7.4	18.05	4.0
8 mo	. F	Fairly good	46.5		26.0		5.0			25.80	
8 mo	. F	Shrinkage	44.5		24.7		4.5			23.70	
		Shrinkage	46.5		22.5		3.8			24.40	
	· F	Shrinkage			33.7		5.5			22.70	
8 mo	F	Slight shrinkage	53.0		25.8 27.5		3.5 4.8			25.00 25.20	
8 mo	. F	Shrinkage	45.8	5.5	25.8	14.5	4.8	8.80	6.6	22.50	l
8 mo	. F	Very badly shrunk	45.3		23.3		4.0	8.50		22.50	
Average						****		8.70	100	23.30	4.2
	. F				24.0		3.3	6.80		24.60	
9 mo	· F · · · · · · · ·	Badly shrunk			23.0 24.7		8.0 4.1	6.50 8.20		21.60 23.60	
		Shrinkage	40.3		21.1		-2.5			21.20	
		Shrinkage			22.5		3.1	6.90		22.50	
9 mo	. F	Shrinkage	40.0		21.0		3.5			22.10	
		Shrinkage			31.7			10.40		22.80	
		Shrinkage			20.2		3.1	7.20		22.50	
9 mo	. F	Shrinkage	45 9		24.7		4.1	8.30 9.90		24.20 22.00	
Average	.		1	0.0		10.2	2.2	7.74		22.70	4.8
10 mo	. F	Badly shrunk	45.0	4.8	21.5	18.7	3.6	8.40		18.70	
10 mo	. W	Badly shrunk	40.5	5.5	19.5	15.5	2.9		6.0	19.30	
10 mo	. F	Badly shrunk	45.0	5.5	21.5	18.0	3.3	7.60	7.3	20.30	
Average	.		11	1	1	1		7.80	1	19.40	4.6

286 REPORT OF STATE BOARD OF HEALTH.

TABLE II.—CHEMICAL EXAMINATION OF EGGS STORED FOR TEN MONTHS, AVERAGE TEMPERATURE 72° F.

		hs.		yolk.	WHITE	
Kind.	Weight fresh.	Weight after 10 months.	Weight of shell.	Weight of white and yolk.	Cc. N/20, NaOH required by white and yolk.	Cc. N/10 NaOH per 100 gms. eggs substance.
F	56.0	17.0	5.0 5.0 6.0	12.0	18.0	150
\mathbf{F}	50.3	17.5 20.0	5.0	12.5	16.0	128
\mathbf{F}	57.0	20.0	6.0	14.0	19.0	135
\mathbf{F}	54.0	19.0	6.01	13.0	17.0	130
F F F F F F	59.0	19.5	5.5	14.0	19.0	135 148
\mathbf{F}	59.5	19.2	6.0	13.2	19.5	148
\mathbf{F}	56.0	19.0	5.3	13.7	17.0	124
	Genera	l avera	ige			135



BACTERIOLOGICAL EXAMINATION OF EGGS.

Fifteen fresh eggs, sixty-two cold-storage eggs, ranging from two months to ten months old; ten cold-storage eggs maintained at a temperature of 32° F. for ten months, fourteen ice-box eggs maintained at an average temperature of 50° F. for ten months, and seven eggs stored at room temperature (72° F.) for ten months, were examined for the number of organisms present per gram. The yolks only of the fifteen fresh eggs and the sixty-two storage eggs were plated, while in the other above mentioned eggs plates were made on the mixed white and yolk. The bacteriological technique used has already been described. All plates were made on standard agar and incubated at 37° F. for forty-eight hours, after which a count was made with a hand lens.

SUMMARY OF BACTERIOLOGICAL EXAMINATION OF EGGS.

Tables I. to X. which follow give the results of the bacteriological examination of the yolks of certain eggs from two days old to three hundred days old. An inspection of table I., which gives the number of bacteria per gram in fifteen eggs, two days old, of the kind previously described, shows that all but five of these eggs contain no bacteria per gram, and that in only one of them were there bacteria present in large numbers. Table II. gives the results of examination of eggs, sixty days old, of the same kind, and shows that of six eggs, four contained no bacteria in one gram samples, and two contained less than one thousand bacteria per Table III., which gives the results of the examinagram of yolk. tion of ninety-day samples, shows that all of the seven eggs examined at this time contained considerable numbers of bacteria. from 500 to 4,800. Table IV., which gives the examination of eggs 120 days old, shows that at this time the numbers of bacteria found were very nearly the same as those obtained in the examination at ninety days. The examinations made at the end of 150 days, given in table V., show that the number of bacteria found at this time had materially increased, while the examinations made at the end of 180 days show a still further increase in the number

of bacteria. At the end of 210 days the number of bacteria found, as judged from the examination of nine eggs, appears to be somewhat smaller than the number found at 180 days, and between the samples examined at 240 days and 270 days, no noticeable difference in the number of bacteria can be observed. At the end of 300 days, when the experiment terminated, the numbers of bacteria found were smaller than on the five previous examinations.

It will also be seen from an inspection of these tables that the number of bacteria present in the yolks of eggs of the quality described, and kept for the ages above stated, is so variable that no satisfactory conclusions can be drawn regarding the relation between the age of the eggs and the number of bacteria present in them except in the most general way. It appears from the tables that the greater proportion of fresh eggs are sterile, or at least contain no bacteria in the yolk in one gram samples, and that eggs of this character may remain sterile for a period of sixty days under the conditions which obtain in these experiments. After that time the bacteria were always found in greater or lesser numbers in every egg examined. The fact that the number of bacteria appeared to diminish after a considerable length of time in storage has been noted by other observers, and is undoubtedly due to the gradual dving off of these organisms because of unfavorable conditions of temperature. These results clearly indicate the futility of attempting to use bacterial counts as a method of determining the age of eggs kept in cold storage under proper commercial conditions. It will be noted that in no instance were large numbers of bacteria found in these eggs even after a period of 300 days. In fact, the numbers of bacteria found are much too small to have caused, by their growth, changes in the composition of the egg sufficiently great to be detectable by the methods of examination previously described.

Table XI. shows the results of the examination of the mixed white and yolk of ten eggs of the quality previously described which had been kept in a commercial cold storage warehouse at 32° F. for 300 days. Table XII. shows a series of similar examinations on fourteen eggs of the same quality which had been kept for the same length of time in a refrigerator, the average temperature of which was 50° F., and table XIII. shows the results of the examination of seven eggs of the same quality which had

290 REPORT OF STATE BOARD OF HEALTH.

been stored for the same length of time in a clean wooden box in the laboratory, the average temperature of which approximated The examination of these tables will show that the bacterial results upon the mixed whites and yolks of the eggs kept in cold storage approximate closely the results obtained from the volks alone of eggs kept for the same length of time under similar The eggs kept in a refrigerator at 50° F. show conconditions. siderable larger numbers of bacteria than those kept at 32° F., although it is significant that one of these eggs, after 300 days storage, contained only 230 bacteria per gram. The eggs kept at room temperature, as was to be expected, contained very much larger numbers of bacteria than the eggs of the other two lots, yet, in no instance were as many as 500,000 bacteria per gram found. These figures show very clearly that when eggs, which have been properly produced under clean conditions and stored in such a manner that they are protected from dirt and excessive dampness, may be kept for long periods of time, even at ordinary temperatures, without becoming so heavily infected with bacteria as to show appreciable evidences of putrefactive decomposition.

BACTERIOLOGICAL EXAMINATION OF EGGS. Wyandotte and Faverolles Breed (W. and F.).

TABLE II.

					Yolk.
	TABLE I.—FRESH.			days.	No. organisms per gram.
		Yolk.	Kind.	Age in	Standard Agar 37° F. counted at 48 hours.
	days.	No. organisms per gram.	F_	60	0
			F	60	. 120
Ġ.	Ë	Standard Agar 37° F.	F F	60	960
Kind.	Age	counted at 48 hours.	F	60	0
	•		W	60	ŏ
F F	2^{-}	25		00	1
F	2	0			_
w	2	0			TABLE III.
F F	2	0			
F	2	11,030		ī	
W	2	0		1	Yolk.
W	2	30			
\mathbf{w}	2	0		days.	No. organisms per gram.
F	2	0		g	No. organisms per gram.
W	2	0		ïä.	
F	1 2		Kind.		Standard Agar 37° F.
F	2	10	ij	Age	counted at 48 hours.
F F	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 12			1
W	2	120	F	90	4,800
	1 4_	<u> </u>	F	90	500
			F	90	1,600
			F	90	2,950
			W	90	2,700 700
			W	90	
			F	90	4,000

REPORT OF STATE BOARD OF HEALTH. 292

BACTERIOLOGICAL EXAMINATION OF EGGS. Wyandotte and Faverolles Breed (F. and W.).

TABLE IV. Yolk. Yolk. No. organisms per gram. No. organisms per gram. 멾 Kind. Standard Agar 37° F. Age ם counted at 48 hours. Standard Agar 37° F. counted at 48 hours. F 12,800 150 4,280 F 150 F 120 500 F 150 3,450 1,200 \mathbf{F} 120 F 150 4,025 1,180 W 120 F 150 6,542 W 120 700 F 150 8,491 W 120 833 W 120 730 120 890 TABLE VII. TABLE VI. Yolk. days. Yolk. No. organisms per gram. ם Kind. No. organisms per gram. Standard Agar 37° F. Age counted at 48 hours. ä Kind. Standard Agar 37° F. F 210 1,100 counted at 48 hours. F 210 1,600 F 210 8,600 F 180 132 F 210 11,500 F 180 1,600 F 210 15,000

F

F

F

210

210

210

210

w

 \mathbf{F}

180

180

180

22,600

21,400

34.000

1,400

2,100

3,800

14,000

BACTERIOLOGICAL EXAMINATION OF EGGS. Wyandotte and Faverolles Breed (F. and W.).

	TABLE VIII.			TABLE IX.				
-		Yolk.	THE PARTY OF STREET		Yolk.			
	days.	No. organisms per gram.		days.	No. organisms per gram.			
Kind.	Age in	Standard Agar 37° F. counted at 48 hours.	Kind	Age in	Standard Agar 37° F. counted at 48 hours.			
· Parawara Parawarana Parawarananananananananananananananananan	240 240 240 240 240 240 240 240 240	2,000 6,340 6,030 5,093 13,160 2,511 3,601 2,750	F F W F F F F F	270 270 270 270 270 270 270 270 270	350 875 12,800 5,351 4,105 11,626 12,100 10,154 1,215			
F	240	9,585	F	270	3,170			

TABLE	X.
-------	----

Ξ.		
		Yolk.
	days.	No. organisms per gram.
Kind.	Age in	Standard Agar 37° F. counted at 48 hours.
F	300	3,946
\mathbf{w}	300	2,220
F	300	3,100

BACTERIOLOGICAL EXAMINATION OF EGGS.

Ten months old—Cold Storage 32° F.

TABLE XI.

		White and yolk.
	days.	No. organisms per gram.
Kind.	Age in	Standard Agar 37° F. counted at 48 hours.
F	300	532
W	300	807
F	300	1,500
\mathbf{F}	300	2,640
\mathbf{F}	300	3,002

21,000

1,210

3,500 4,302

8,410

300

300

300

300 300

W

W

W

BACTERIOLOGICAL EXAMINATION OF EGGS.

Wyandotte and Faverolles Breed
(F. and W.).
*TABLE XII.

		White and yolk.
	days.	No. organisms per gram.
Kind.	Age in	Standard Agar 37° F. counted at 48 hours.
F	300	46,000
F	300	54,820
\mathbf{F}	300	8,300
\mathbf{F}	300	230
F	300	82,000
\mathbf{F}	300	70,000
\mathbf{F}	300	85,000
F	300	110,000
\mathbf{F}	300	75,000
F	300	70,000
\mathbf{F}	300	54,500
F	300	21,900
F	300	65,000
F	300	72,700

*Eggs stored in ordinary refrigerator. Average temperature 50° F. for ten months.

BACTERIOLOGICAL EXAMINATION OF EGGS. Wyandotte and Faverolles Breed (W. and F.).

*TABLE XIII.

		White and yolk.
	in days.	No. organisms per gram.
Kind.	Age in	Standard Agar 37° F. counted at 48 hours.
F	3001	330.000
\mathbf{F}	300	212,000
\mathbf{F}	300	475,000
\mathbf{F}	300	307,000
\mathbf{F}	300	303,000
\mathbf{F}	300	264,500
\mathbf{F}	300	265,000

^{*}Eggs stored in clean wooden box for ten months. Average temperature 72° F.

ACKNOWLEDGMENTS.

In the foregoing paper the following literature has been consulted: Bulletin Nos. 103, 87, 128, 115, Circular Nos. 140 and 64, of the United States Department of Agriculture; Bulletin No. 162 of the Kansas State Agricultural College Experiment Station; an article by M. E. Pennington in the Journal of Biological Chemistry of January, 1910; also an article by LaWall and Cassidy, contained in Bulletin No. 183 of the Food Department of the State of Pennsylvania. The writer duly acknowledges all information obtained from the above mentioned sources.

Report of the Division of Sewerage and Water Supplies.

Francis E. Daniels, A. M., Chief.

The Board of Health of the State of New Jersey:

GENTLEMEN-I have the honor to submit the following report of the work of the Division of Sewerage and Water Supplies for the year ending October 31st, 1911.

The work during the year has been continued along the same lines as in the past, and all matters pertaining to sewerage have been kept, as far as possible, separate from matters pertaining to water-supplies. Regular meetings of the technical staff are held, however, and problems relating to both sewage and water are freely discussed. In this way each one is kept in touch with the work of the whole division and all work in harmony.

The Division endeavors to see that the laws regarding the purity of the waters of the State are enforced, thereby preventing pollution on the one hand, and compelling purification on the other. Our inspectors are constantly patrolling the watersheds and streams, searching out sources of pollution. The offenders are reported, and usually after notices are served, abatements follow. In some instances, abatements do not occur. These cases are referred to the Attorney-General for prosecution and, in a large percentage, abatements occur before suits are brought.

Another feature of prevention of pollution is the work of sewage treatment and disposal. This work is increasing rapidly throughout the State. In October, 1908, there were 39 sewage disposal plants; 1909, there were 63; in 1910, there were 82, and at the present writing, October 31st, 1911, there are 105 plants in

operation and six more under construction.

These plants exhibit all of the standard methods of sewage treatment from broad irrigation to the Imhoff tank, and there is a project on foot to install a plant for the treatment of sewage by means of ozone.

The methods of enforcing the laws leading to the installation of sewage disposal plants have been explained in former reports, so that it is only necessary to mention that practically every sewerage system in the State except those in the Passaic valley and near vicinity and a few systems along the Hudson river are "under orders." The municipalities owning these sewerage systems are rapidly taking steps toward the establishment of disposal plants except a few that are awaiting the outcome of the Phillipsburg suit. This case has proceeded as far as the summing up and argument. This was set for September 15th, 1911, but was postponed to await a decision of one of the upper courts.

The following table shows the status of the various municipalities "under orders":

Place.	Ordered to cease pollution prior to		Sewage disposal plans approved.			
Atlantic City (main outlet)	February	1,	1912.			
Atlantic Highlands	June	1,	1911.	May	11,	1909.
Avalon	June	1,	1912.	August	8,	1911.
Beach Haven	June	1,	1912.			
Belvidere (private sewer)	October	1,	1907.			
Referred to Attorney-General.				•		
Blairstown (private sewer)	October	1,	1907.			
Referred to Attorney-General.						
Bogota	January	1,	1914.			
Bound Brook	July	1,	1912.			
Brown's Mills-in-thePines	May	1,	1909.	January	31,	1911.
Camden	September	1,	1913.			
Cape May	May	15,	1912.			
Cranford	November	1,	1911.			
Delford	January	1,	1914.			
Englewood	January	1,	1914.	April	4,	1911.
Garwood	December	1,	1908.	June	15,	1909.
Certioraried by the city of Rahv	vay.					
Gloucester	September	1,	1913.			
Hackensack	January	1,	1914.			
Highland Park	January	1,	1912.			
Jersey City (part of)	May	1,	1908.			
Referred to Attorney-General.						
Leonia (three sewer companies)	January	1,	1914.			
Long Branch	May	1,	1909.			
Longport	June	1,	1912.			
	- 440	-,				

Place.	Ordered to cease pollution prior to		Sewage disposal plans approved,	
Mount Holly	January	1. 1911.	June	13, 1911.
New Brunswick	July	1, 1912.	January	24, 1911.
New Lisbon	May	1, 1909.	oundary	,
(Burlington County Asylum.)		_,		
North Wildwood	June	1, 1912.		
Oaklyn (private sewer)	October	1, 1908.	November	9, 1909.
Preliminary injunction granted.		,		0, 2000
Ocean City	June	1, 1911.	April	25, 1911.
Phillipsburg	October	1, 1907.		
Case being tried.		•		
Rahway	October	1, 1911.		
Raritan	July	1, 1911.		
Red Bank	May	1, 1909.		
Referred to Attorney-General.	•			
Ridgefield	January	1, 1914.		
Ridgefield Park	January	1, 1914.		
River Edge	January	1, 1914 .		
Riverton	September	1, 1913.		
Rumson (private sewers)	June	1, 1911.	July	11, 1911.
Salem	September	1, 1913.		
Seabright	June	1, 1911.		
Sea Isle City (private sewers)	November	1, 1911.		
Seaside Park	June	1, 1912.		
Skillman	June	1, 1910.	August	22 , 1911.
New Jersey State Village for	Epileptics.			
Somerville	July	1, 1911.		
South Amboy	January	1, 1913.		
Sussex (private sewers)	October	1, 1912.		
Trenton	January	1, 1913.		
West Hoboken	May	1, 1908.		
Referred to Attorney-General.				
Wildwood	June	1, 1912.		
Wildwood Crest	June	1. 1912.	May	9, 1911.
Woodlynne	July	1, 1910.	May	18, 1909.
Under injunction.				

300 REPORT OF STATE BOARD OF HEALTH.

The following places have had plans for sewage disposal plants approved without having been placed under orders:

	Date of		
Place.	approval	of p	lans.
Belmar (part of)	pril	4,	1911.
Beverly	lugust	10,	1909.
Bradley Beach (part of)	pril	11,	1911.
Cape May Court House	October	31,	1911.
Chatham-Madison	lugust	16,	1910.
Cliffside Park	une	27,	1911.
Fairview	pril	18,	1911.
Garfield	pril	18,	1911.
Hightstown	lugust	8,	1911.
Kenilworth	Sept <mark>ember</mark>	5,	1911.
American Circular Loom Company.			
Keyport	anuary	25,	1910.
Maywood	anuary	25,	1910.
Monmouth Beach	December	28,	1910.
South River	March	8,	1910.
Stone Harbor	Lugust	8,	1911.
Toms River	ebruary	23,	1911.
Trenton	October	10,	1911.
Agasote Millboard Company.			
Woodbridge (part of)	October	24,	1911.

In the detailed report of the sewage disposal plants will be found descriptions of plants not described in previous reports and a short statement of the present conditions of each one inspected. As stated above, there are many types and combinations of processes with varied results. In many cases the results are highly satisfactory while in others they are deplorable. In every case poor results are easily explained. Some plants have become hopelessly overloaded on account of rapid increase of population served, while others are simply suffering for the want of proper management and systematic attention. To remedy overloading, enlargement of the plant is necessary, and the present financial conditions of some towns has caused their sewage disposal plants to suffer. However, it is the intention of this Division to use every effort to have overloaded plants rebuilt or enlarged. Haddonfield has recently put into operation the new sprinkling filter, which takes the place of part of its old plant. There are several other plants which should be enlarged at once.

Many times poor results and local nuisances obtain through lack of care or from improper management. It is certainly not

to the credit of engineers when they build complicated disposal plants to go away without instructing the persons who are to take charge as to how the plants should be managed, and yet this very thing has happened several times during the present year. The plants were built and sewage turned on without instructing the attendant what to do. In a few days, complaints from the neighborhood came to our attention and the troubles were remedied in short order.

The Board has recently authorized this Division to send a man to any sewage disposal or water filtration plant needing attention and have him remain there long enough to put it in shape and to instruct the attendant by example, as well as by precept, the proper methods of management. A reference to the report on Haddon Heights will illustrate this point.

Some of our sewage disposal plants discharge their effluents into water-supplies, while others have been installed to protect the shell-fish industry and bathing beaches. These points have been dealt with in former reports.

A few plants have been installed to care for industrial wastes either by themselves or mixed with domestic sewage.

What the results of the proposed ozone process will be, remains to be seen. A private company has offered to install a unit to treat 1,000,000 gallons per day of the sewage of Trenton, and the results of this trial are eagerly awaited by the writer.

Considerable work has been done during the year in regard to water-supplies throughout the State.

There are in the State of New Jersey 188 plants supplying water to 366 towns. Of these towns, 142 receive a treated water, either filtered or disinfected. In 11 cases the water is filtered for the removal of iron; of these, 9 use rapid sand filters (5 pressure and 4 gravity), and 2 use slow sand filters. In 23 towns surface water is filtered for the removal of color and bacteria. Of these, 18 plants use rapid sand filters (4 pressure and 14 gravity), and 5 plants use slow sand filters. Five plants treat surface water with calcium hypochlorite.

In many cases the plants are well managed and in good shape, while in others a combination of poor equipment and bad management has given poor results. It is now the policy of this Division to have a man instruct the attendant how his plant should be

run to give the best results. Already this has been done in several cases and good results have been accomplished. In some instances where necessary equipment has been lacking, the owners have appreciated our efforts and have procured additional apparatus and materials to work with. At the State Village for Epileptics, the mechanical filter was in poor shape. In order to eliminate B. Coli pending the overhauling of the filter plant it was decided to add hypochlorite. We telephoned to Philadelphia for the chemical and sent out men to Skillman. In a few hours an emergency disinfecting plant was installed and is still in operation. The water system was thoroughly disinfected and the filtration plant put in good order.

There exists one serious source of danger at some of the filtration plants. I refer to by-passes.

We have frequently found by-passes open and polluted raw water being pumped directly into the distributing mains, while little or no water was being filtered. The Board has recently authorized this Division to have these by-passes sealed.

These seals shall not be broken, under penalty of action in the Court of Chancery, except in case of dire necessity, and then only with the consent of the State Board of Health. At such times every precaution shall be taken to protect the water consumers from danger and to prevent an outbreak of disease.

Many of the untreated surface supplies are in need of careful attention. As the population upon the watersheds increases, danger of contamination becomes more and more imminent. No untreated or improperly stored surface water collected from a populated watershed is a safe supply, and many a supply once perfectly safe, or reasonably so, has become dangerous in its raw state on account of recent pollutions upon the watershed.

There are several supplies in the State which at least need disinfection or, better still, disinfection combined with filtration.

As stated below, the watersheds are being reinspected and every effort will be made to clean them up.

The following list shows the water-supplies established during the year:

Town.	Date.	Applicant.	Source.
Brant Beach	June 13, 11.	Somerset Spring Water Co .Weach Haven Realty Co .Bridgeport Water Co	Artesian well.
Crosswicks	June 6, '11.	City of Bridgeton	Tumbling Dam pondSpringsOne drilled well, 65
Haddonfield borough High Bridge Hohokus Hopewell	Dec. 18, '10. May 16, '11.	Borough of Haddonfield Borough of High Bridge Albert Winter John G. Burton	Willoughby brook.
Kenilworth	Oct. 10, '11.	Borough of Kenilworth	deepDriven well, 275 ft. deep.
Milford Mountain Lakes	Nov. 29, '10. July 25, '11.	Town of Milford	Dug wellDrilled well, 340 ft. deep.
		Sewell Water Co	

Stream inspections have been continued as rapidly as the size of our force will permit. There are over 7,500 square miles of territory for the three inspectors to cover. During the summer we employed extra inspectors and made a complete inspection of ocean front and tributaries from Sandy Hook to Cape May. The offenders have been given a reasonable time in which to cease polluting the waters.

To letters sent out by the Attorney-General in regard to cases referred to him for prosecution, replies have been received. In the majority of cases, there have been promises to comply with the law. All of these cases are being reinspected together with the neighboring territories.

The State has been divided by counties into three sections of about 2,500 square miles each, and an inspector assigned to each section.

A complete reinspection of the State is in progress in this order of importance: First, watersheds; second, waters adjacent to shell-fish industries; and third, the remaining territory.

As about one-fourth of each inspector's time is devoted to collecting water samples from public supplies, one can readily see that our force is entirely too small.

The following list of waters inspected during the year will, however, give an idea of what is being done:

Absecon inlet, Atlantic ocean, Baldwin's run, Barnegat bay, Cold Spring inlet, Cornell harbor, Corsons inlet, Deal lake, Delaware bay, Delaware river, Elizabeth river, Great Egg Harbor bay, Great Egg Harbor inlet, Green pond,

Hackensack river, Hereford inlet, Hohokus brook, Inside Thorofare (Sea Isle City), Lake Hopatcong, Lakes bay, Ludlam Thorofare, Ludlam bay, Manahawkin bay, Manasquan river, Mantua creek, Maurice river, Middle brook, Musconetcong river, Navesink river, Overpeck creek, Passaic river, Paulins Kill, Pequannock river, Pequest river, Pohatcong creek, Pompton lake, Raccoon creek, Rahway river, Rancocas creek, Raritan bay, Raritan river, Sea Girt inlet, Second river, Scragley's creek, Shark river, Shrewsbury river, South Plainfield pond, Swimming river, Toms river, Townsend inlet, Tuckerton bay, Wallkill river, Wesley lake and the Whippany river.

One of the most important features of the work of the Division is the work done in the laboratory.

Routine chemical and bacterial analyses are made on water and sewage according to the standard methods described in previous reports. On account of the lack of space, only the routine work can be done. The laboratory is well equipped with apparatus, part of which is well-nigh useless on account of the want of proper room. No experiments or investigations can be done to any extent—a class of work which is becoming a necessity. A new laboratory building with an experiment station for investigations in the purification of water, sewage and trades wastes is urgently needed.

During the year valuable additions have been made to our library, but there is needed a room in which one can consult the books undisturbed.

The following is a short summary of the work done during the year:

Water-supply inspections	421
Special water-supply inspections	68
State institution water-supply inspections	25
Proposed public water-supply inspections	10
Spring water-supply inspections	30
Sewerage system inspections	347
Special sewerage system inspections	122
State institution sewerage system inspections	15
Water-supply plans approved	24
Water-supply plans disapproved	3
Bottled water-supply plans approved	3
Bottled water-supply plans disapproved	2
Sewerage plans approved	68
Sewerage plans disapproved	6
Number of pollutions reported	1,667
Number of reinspections made	1,056
Number of pollutions abated	485
Number of municipalities notified to cease pollution	8
Number of notices to cease pollution served	1,140
Number of cases referred to the Attorney-General	99
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S	amples analyzed from the following:
	Public water-supplies
	Private water-supplies
	Proposed water-supplies
	Spring water-supplies
	State institution water-supplies
	Dairy wells
	Creamery wells
	Sewage

Miscellaneous

Official Actions.

THE FOLLOWING IS A BRIEF SUMMARY OF THE ACTIONS TAKEN BY THE BOARD RELATIVE TO MATTERS PERTAINING TO SEWAGE.

ALPHA.—In January, 1911, complaints were received from residents of Springtown, to the effect that the stream flowing through Springtown was being seriously polluted by oily wastes discharged from the works of the Alpha Portland Cement Company, at Alpha.

On January 25th, 1911, an inspection was made. It was learned that the company had installed a collecting basin since receiving a notice from this Board to cease polluting the stream. The report at this time seemed to indicate that there might be some contamination during heavy storms, but that this would be serious seemed unlikely.

Upon receiving further complaint, our engineer was sent to Alpha to investigate. It was then found that a large amount of storm water was allowed to flow into the separating tanks, thereby making it impossible to control the output during a storm.

The necessity of cutting off the storm water was taken up with the company, and, by appointment, our engineer went carefully over the ground with the secretary and treasurer of the company and showed how the proper changes should be made. These changes the company promised to make.

ASBURY PARK.—On March 28th, 1911, a report of inspection of the sewer system was ordered sent to the City Council and to the Superintendent of Sewers.

On August 22d, 1911, plans and specifications submitted by Messrs. Twombly & Henney for additions to and changes in the sewerage system and sewage disposal plant were approved subject to the usual conditions.

ASYLA.—On December 28th, 1910, the condition of the sewage disposal plant for the Camden county institutions was reported to the Board. This was referred to Senator Johnson, and on February 21st, 1911, proposed changes in the sewage disposal plant were approved subject to certain modifications.

ATLANTIC HIGHLANDS.—On December 13th, 1910, a resolution was adopted that the borough be notified to cease to pollute the waters of Sandy Hook bay prior to June 1st, 1911.

AVALON.—On November 15th, 1910, it was ordered that the borough be notified to show cause on December 20th, 1910, why it should not be notified to discontinue to discharge sewage into the waters of Beach creek.

On December 20th, 1910, it was ordered that plans for taking care of the sewage be presented on April 11th, 1911.

On April 18, 1911, plans for sewage disposal were submitted and returned to authorities of said borough for revision.

On August 8th, 1911, plans for sewage disposal were approved subject to the usual conditions, but the plans for a collecting system of sewers were disapproved.

On October 10th, 1911, amended plans for sewer extensions were presented and held for further revision.

BELMAR.—On April 4th, 1911, plans for extensions to the sewerage system were approved subject to the usual conditions.

On April 11th, 1911, the case against the Coast Gas Company was referred to the Attorney-General for prosecution.

BOGOTA.—On January 25th, 1911, an inspection of the sewerage system was made.

On January 26th, 1911, a more thorough inspection of the sewers was made and advice to relieve the existing evils was given.

BOUND BROOK.—On June 27th, 1911, the time prior to which the borough must cease to pollute the Raritan river was extended to July 1st, 1912.

BRADLEY BEACH.—On April 11th, 1911, motion was made and carried that plans for a collecting system of sewers and a sewage disposal plant for the southerly part of the borough be approved subject to the usual conditions, provided that all manholes be ventilated and that flush tanks be installed at the dead ends of all laterals.

Brown's MILLS-IN-THE-PINES.—On January 3d, 1911, it was voted that the engineer who designed the sewage disposal plant be notified that further provision must be made to disinfect the effluent.

On January 10th, 1911, notice was ordered to be sent to the engineer, that in place of secondary treatment, the Board would agree to an enlargement of the primary contact beds and subsequent disinfection of the effluent.

Plans for the disposal plant were approved on January 31st, 1911, subject to the usual conditions,

Burlington.—On April 11th, 1911, the Board ordered that notification be sent to the officials of the sewage disposal plant, instructing them to place the plant in a satisfactory condition.

On October 10th, 1911, it was ordered that the American Pipe Manufacturing Company be notified to put the sewage disposal plant in a satisfactory condition.

CAMDEN.—On May 29th, 1911, an inspection was made of the waste discharge from the manufacturing plant of the Atlas Cereal Company. It was found that this waste liquor was polluting Baldwin's run. This company has since arranged to discharge the waste into the Camden sewer.

On October 24th, 1911, plans for sewer extensions submitted to the Board for approval, were ordered to be returned to the city authorities for revision.

CAPE MAY.—Representatives of the city appeared before the Board on August 22d, 1911, to explain the cause of delay in selecting a site for a sewage disposal plant. The Board voted an extension of time before placing the matter in the hands of the Attorney-General, on condition that the city purchase a pumping station site before October 1st, 1911; that plans for a disposal plant be submitted to the Board, and contracts let before January 1st, 1912, and that the plant be installed and in operation before May 15th, 1912.

CAPE MAY COURT HOUSE.—An inspection made on May 20th, 1911, indicated that the proposed treatment of the sewage from the county buildings by disinfection was insufficient, as the stream to receive the effluent was not large enough to care for the sewage solids by dilution properly.

The plans for a disposal plant which were rejected on May 16th, 1911, were again presented to the Board in an amended form on September 27th, 1911, and were approved subject to the usual conditions.

CLIFFSIDE PARK.—Preliminary plans for a sewage disposal system were presented to the Board on March 28th, 1911, by the engineers representing the borough. On April 18th, the Board held a hearing for the benefit of people interested in the matter. Amended plans for a disposal system were approved

by the Board on June 27th, subject to the usual conditions and also subject to the elimination from the plans of certain by-pass pipes.

CLINTON.—On April 11th, 1911, the Board ordered that the officials in charge of the disposal plant be notified to improve the condition of the plant without delay.

COLLINGSWOOD.—On March 7th, 1911, the Board approved plans for an extension to the sewage settling tank subject to the usual conditions.

Plans for sewer extensions which were submitted to the Board and approved in 1909, were changed without approval during construction in the following year.

On September 27th, 1911, this matter was referred by the Board to the Attorney-General for such action as the law provides.

On February 27th, 1911, the Board ordered that the Collingswood Sewerage Company be notified to put its sewage disposal plant in proper working condition.

On October 17th, 1911, the Board ordered that the Collingswood Sewerage Company be notified to install additional contact beds at its sewage disposal plant prior to May 1st, 1912.

An inspection made on August 28th, 1911, showed that wastes from the Enterprise Wall Paper Company were polluting Newton creek.

COLT'S NECK.—On December 6th, 1910, plans for a disposal plant for the treatment of waste liquids from the creamery operated by H. S. Wilson, were approved subject to the usual conditions.

CRANFORD.—On August 22d, 1911, plans for a sewage disposal system for Normandie Park were referred back to the Normandie Park Realty Company, with instructions to obtain the approval of the borough authorities for the connection of the sewers with the borough system.

On October 17th, 1911, plans for an extension to the sewers of the borough were approved subject to the usual conditions and with the proviso that the authorities be notified that the Board "cannot approve of further extensions until all ground water is cut off from the sewer pipes."

On October 24th, 1911, the Board ordered that the borough authorities be requested to inform the Board within thirty days as to the acceptance or rejection by its committees of plans for disposing of the sewage of Cranford and neighboring districts.

ENGLEWOOD.—On April 4th, 1911, plans for a sewage disposal plant for the Englewood Sewerage Company were approved subject to the usual conditions, with the proviso that a system for the secondary treatment of the sewage be installed prior to January 1st, 1914, and that a by-pass, shown on the plans, be removed.

FAIRVIEW.—On April 18th, 1911, plans for a collecting system of sewers and a sewage disposal plant were approved by the Board subject to the usual conditions.

FORT LEE.—Plans for sewer extensions were aproved by the Beard, subject to the usual conditions, on the following dates: June 27th, July 25th, August 22d and October 10th, 1911.

On October 24th, the Board ordered that the Borough authorities be notified to submit plans of the sewers in the Palisades section of said borough, and show changes proposed to be made to improve defects in said sewers.

Garrield.—On April 18th, 1911, plans for a sewage disposal plant were approved by the Board subject to the usual conditions and also subject to the elimination of a by-pass, shown on the plans.

GLEN GARDNER.—On April 11th, 1911, the Board ordered that notification be sent to the officials of the disposal plant of the New Jersey Sanatorium for Tuberculous Diseases, instructing them to put the plant in a satisfactory condition without delay.

Haddon Township.—On September 27th, 1911, plans for a sewer system for a portion of the township, were presented to the Board and rejected as unsatisfactory.

HIGHLAND PARK.—On May 16th, 1911, the Board granted an extension of time until January 1st, 1912, in which to install a sewage disposal plant, there being numerous objections to the original site for the plant.

HIGHTSTOWN.—On August 8th, 1911, plans for a sewage disposal system were approved subject to the usual conditions and subject to the dosing of the beds intermittently.

HOLLY BEACH.—On November 15th, 1910, the Board ordered that plans for a sewage disposal plant be submitted and the plant installed prior to June 1st, 1911.

On December 20th, 1910, the Board ordered the borough authorities to appear before it on the second Tuesday in April, 1911, to present a plan for taking care of the sewage of the borough.

KENILWORTH.—On September 5th, 1911, the Board approved plans for a sewage disposal plant for the American Circular Loom Company, subject to the usual conditions.

KEYPOET.—On September 5th, 1911, the Board prohibited the authorities from laying sewers in close proximity to water-supply wells, until plans for protection of the wells were submitted to the Board for approval. On October 24th, 1911, permission was given by the Board to lay sewer pipes near the wells in question providing piping of a certain specified type be used.

LAKEWOOD.—On December 6th, 1910, the matter of the pollution of the Metedeconk river and its tributaries by wastes from the Lakewood Gas Company, was referred to the Attorney-General.

On March 28th, 1911, the Board ordered the matter of the pollution of the Metedeconk river by the sewer system of the Lakewood Water, Light and Power Company, to be referred to the Attorney-General for prosecution.

MARGATE CITY.—On February 21st, 1911, the Board approved the revised plans for a chemical house to be built in connection with the sewage works.

MEDFORD.—On March 21st, 1911, the Board approved plans for a sewage disposal plant for a private sewer on Bank street, subject to the usual conditions.

MERCHANTVILLE.—On February 27th, 1911, the Board ordered that the authorities be notified to put the sewage disposal plant in proper condition.

MONMOUTH BEACH.—On December 28th, 1910, plans for a sewage disposal system were approved by the Board, subject to the usual conditions.

MOUNT ARLINGTON.—On July 25th, 1911, the Board issued an order requiring the proprietor of the New Breslin Hotel to reconstruct the sewage disposal system of the hotel at an early date, in a manner to meet the approval of the Board, and also requiring him to discontinue at once the pollution of Lake Hopatcong from the hotel properties.

• MOUNT HOLLY.—On June 13th, 1911, amended plans for a sewage disposal plant were approved by the Board subject to the usual conditions.

NEPTUNE TOWNSHIP.—On September 19th, 1911, the Board instructed its secretary to communicate with the authorities of the township, informing them as to the poor condition of the sewer system.

310 REPORT OF STATE BOARD OF HEALTH.

NEW BRUNSWICK.—On January 24th, 1911, plans for a sewage disposal plant were approved subject to the usual conditions and with the proviso that the by-passes in the Burnett and Mile Run Brook plants be eliminated, and that further plans be submitted showing the exact location of the plants.

On February 7th, 1911, the Board approved the retention of the by-passes in the sewage disposal plants, subject to certain conditions.

On June 27th, 1911, the Board granted an extension of time to July 1st, 1912, prior to which date the city must cease polluting the waters of the Raritan river.

On August 22d, 1911, amended plans for extensions to the sewers on Seaman, Redmond, Sanford, Howard, Talmadge, Morris and John streets, and on Lee avenue, were approved by the Board subject to the usual conditions and subject to the installation of a manhole on Redmond street.

NEW LISBON.—On February 27th, 1911, the Board ordered that the condition of the sewage disposal plant be improved in accordance with recommendations made by this Division.

NORTH PLAINFIELD.—Plans for a sewage disposal plant were presented to the Board on December 13th, 1910.

On March 28th, 1911, representatives of North Plainfield appeared before the Board in support of a site for the proposed sewage disposal plant. As the map of the site was not complete, the Board requested more detailed plans showing the collecting and outfall systems of sewers. These plans were accordingly presented to the Board on April 4th, 1911. This Division was asked to examine the plans and report to the Board as to their suitability on April 11th, 1911. After consideration of the matter, the Board voted on April 18th, 1911, its disapproval of the plans as presented.

On August 22d, 1911, the Board instructed its secretary to confer with the Attorney-General as to what course of action should be followed relative to the proposed sewage disposal plant.

NORTH WILDWOOD.—On November 15th, 1910, the Board ordered that the authorities of North Wildwood be requested to appear before it on December 20th, 1910, to show cause why notification should not be served requiring the borough to discontinue polluting the waters of Post creek. The Board further ordered on December 20th, 1910, that representatives of the borough should appear before it on the second Tuesday in April, 1911, with a plan for disposing of the sewage from said borough.

OCEAN CITY.—Preliminary plans for a sewage disposal system were approved on March 14th, 1911, subject to the usual conditions and subject to the submission of detailed plans to the Board at a later date. Plans of the tanks for the sewage disposal plant were approved on April 25th, 1911, subject to the usual conditions and subject to the submission to the Board at a later date of detailed plans of the collecting and outfall sewers. On May 16th, 1911, the plans of an intercepting and outfall sewer were approved by the Board subject to the usual conditions.

PEERMONT.—At a meeting held November 15th, 1910, the Board voted that the authorities be notified to appear before it on December 20th, 1910, to show cause why Peermont should not be notified to cease discharging sewage into the waters of the Great Sound and its tributaries.

PEMBERTON.—On February 27th, 1911, the Board ordered that the sewage disposal plant be improved in accordance with the recommendations made by this Division.

PHILLIPSBURG.—On September 5th, 1911, the Board rejected an application for sewer extensions, believing it advisable to await a decision in the suit instituted by the Board against the city, relative to the disposal of sewage from the city.

On October 17th, 1911, the Board instructed its secretary to communicate with the city authorities requesting them to file plans for a dual sewer system on Thomas street, and stating that when said plans have been filed and have been approved by the Board, permission would be granted to carry out said extensions.

PRINCETON.—On January 3d, 1911, the Board ordered that the authorities be notified to remedy at once the conditions at the northeast sewage disposal plant, or the matter would be placed in the hands of the Attorney-General for prosecution.

On April 4th, 1911, the Board ordered that a copy of a report of an inspection, showing that sewage was being discharged from the northeast sewage bed without proper purification, be forwarded to the authorities with instructions that, if action was not taken at once to remedy the conditions referred to, the matter would be placed in the hands of the Attorney-General.

Plans for sewer construction on Cleveland Lane were approved by the Board on June 27th, 1911, subject to the usual conditions.

On August 8th, 1911, the Board ordered that the matter of the pollution of the waters of Carnegie lake by unpurified sewage from the disposal plant, be referred to the Attorney-General for prosecution.

RAHWAY.—On August 22d, 1911, the Board disapproved of the plans for various sewer extensions on the ground that the outfall sewer was insufficient in size to carry any increased flow of sewage.

These plans were altered by the authorities and in an amended form were presented to the Board, and received approval on September 5th, 1911, subject to the notice already presented to the city requiring it to cease polluting the Rahway river prior to October 1st, 1911.

On November 29th, 1910, the Board approved amended plans showing the final location of the sewage disposal system of the New Jersey State Reformatory.

RED BANK.—The borough having been ordered to purify further its sewage prior to May 1st, 1909, and having failed to comply with this order, the Board on December 6th, 1910, referred the matter to the Attorney-General for such action as the law provides.

Steps are now being taken to comply with the above orders.

RINGEWOOD.—On February 27th, 1911, the Board ordered that the sewage disposal plant be improved in accordance with the recommendations made in a report to the Board by this Division.

Plans for additions to the sewage disposal plant were approved by the Board on April 18th, 1911, subject to the usual conditions.

RIVERTON.—On July 25th, 1911, the Board approved of the means of disposing of sewage proposed by the authorities with the understanding that further purification may be required at a future date.

Plans for sewer extensions on various streets were approved subject to the notice already given to the borough to cease polluting the Delaware river prior to September 1st, 1913, and subject to the construction of a manhole at a specified location.

RUMSON.—On December 13th, 1910, the Board ordered the Rumson Land and Development Company to cease polluting the waters of the Shrewsbury river prior to June 1st, 1911.

Plans for a sewage disposal plant for the Rumson Land and Development Company were presented to the Board for approval, but were referred back for further investigation on April 11th, and on April 18th, 1911. These plans in a revised form were finally approved by the Board on July 11th, 1911, subject to the usual conditions.

SEA BRIGHT.—On December 13th, 1910, the Board ordered that the borough of Sea Bright be notified to cease polluting the waters of the Shrewsbury river prior to June 1st, 1911.

SEA ISLE CITY.—On December 6th, 1910, the Board approved the preliminary plans for a collecting system of sewers subject to the usual conditions.

The residents of Sea Isle City have already been notified to cease polluting Ludlam's bay, Ludlam's Thorofare and Scragley's creek. The time limit on this order was extended to November 1st, 1911, upon recommendation made at a Board meeting held on January 24th, 1911.

SECAUCUS.—On April 4th, 1911, the Board ordered that the plans for a surface drainage system be referred back to this Division and that the authorities be instructed to submit more detailed plans and specifications of this system.

SKILLMAN.—Plans for a sewage disposal system for the New Jersey State Village for Epileptics were approved by the Board on August 22d, 1911, subject to the usual conditions.

SMITH'S LANDING.—On December 13th, 1910, the Board approved plans for a sewage disposal plant for the Atlantic County Insane Asylum subject to the usual conditions. It was also voted, however, that the Asylum authorities be informed that if this plant as proposed was not properly operated, the Board would require further purification of the sewage by sand filtration or some other approved system.

STONE HARBOR.—On February 21st, 1911, preliminary plans for a sewage disposal system were approved by the Board subject to the usual conditions, with the proviso that detailed plans of the system must be submitted at a later date.

On August 8th, 1911, plans for a sewage disposal plant were approved subject to the usual conditions. The plans for the collecting system of sewers considered at the same time, were rejected by the Board.

On October 10th, 1911, amended plans for sewer extensions at Stone Harbor were referred to this Division for consideration.

SWEDESBORO.—After listening to representatives of the Swedesboro Sewer Company with reference to the discharge of sewage by the borough into the waters of Raccoon creek, the Board, at a meeting held on October 10th, 1911, decided that the order requiring this company to cease polluting this creek prior to January 1st, 1913, should stand.

THREE BRIDGES.—On April 11th, 1911, the Board ordered that notification be sent to the officials in charge of the sewage disposal plant, requiring them to put the same in a condition satisfactory to the Board without delay.

Toms RIVER.—On February 21st, 1911, the Board approved plans for a sewage disposal system subject to the usual conditions.

TRENTON.—Plans for sewer extensions were approved, subject to the usual conditions, on December 6th and December 28th, 1910.

The Board voted on January 31st, 1911, that no further sewer extensions would be granted until the city complied with the order to cease polluting the Delaware river.

On March 14th, 1911, a resolution was adopted by the Board requiring the city to cease polluting the Delaware river prior to January 1st, 1913.

Further sewer extensions, subject to the notice to cease polluting the Delaware river prior to January 1st, 1913, were granted by the Board on the following dates: March 14th, May 2d, May 23d, June 6th and July 25th, 1911.

Representatives of the city and others interested in the installation of a plant for the purification of sewage with ozone, appeared before the Board on September 5th, 1911. The Board, after considering, decided to grant the city time until December 1st, 1911, in which to present a method for taking care of its sewage.

Plans for a sewage disposal plant for the Agasote Millboard Company were approved by the Board on October 10th, 1911, subject to the usual conditions, and subject to elimination of by-pass pipe.

VENTNOR.—On January 31st, 1911, the Board approved plans for sewage disposal plants for Ventnor Park and on Cornwall avenue, subject to the usual conditions.

VINELAND.—On October 10th, 1911, the Board decided that the method of sewage disposal proposed for the Training School for Feeble-Minded Children would be acceptable, and that detailed plans would not be required, as with broad irrigation, provision need not be made to care for the efficient.

WESTFIELD.—On April 18th, 1911, the Board ordered that the attention of the officials be called to the defects of the sewage disposal plant and that steps be taken to improve the plant.

WILDWOOD.—At a meeting held on November 15th, 1910, the Board voted that the authorities be requested to show cause at a meeting to be held on December 20th, 1910, why they should not be notified to cease discharging sewage into the waters of Post creek.

On December 20th, 1910, the Board requested the authorities of Wildwood to appear before them on the second Tuesday in April, 1911, and present a plan for taking care of the sewage of the borough.

WILDWOOD CREST.—On November 15th, 1910, the Board ordered that plans for a sewage disposal plant be submitted and that the plant be installed prior to June 1st, 1911. The Board on December 20th, 1910, further ordered the borough authorities to appear before it on the second Tuesday in April, 1911, and present a plan for taking care of the sewage from said borough. In response to this order, the Wildwood Crest Improvement Company, at a meeting on April 25th, presented plans for a system of collecting sewers. The Board would not accept these plans until plans for a disposal plant were first presented for approval. The company soon afterward handed in the required plans, and on May 2d, 1911, these plans were referred to this Division for consideration.

Plans for the collecting system of sewers were approved by the Board on May 9th, 1911, subject to such conditions of construction and operation as the Board may from time to time require, and subject to the submission of plans for a sewage disposal plant at a later date, and with the proviso that the collecting sewers should not be used until the plans for the disposal plant were approved by the Board.

On May 16th, 1911, the Board approved plans for a sewage disposal plant for the Wildwood Crest Improvement Company subject to the usual conditions. Plans for sewer outlets in the borough were on May 23d, 1911, referred by the Board to this Division.

WOODBRIDGE TOWNSHIP.—Plans for sewer construction on Woodbridge avenue were disapproved by the Board on August 8th, 1911, as there was no provision made for purifying the sewage.

314 REPORT OF STATE BOARD OF HEALTH.

Plans for treating the sewage from the Woodbridge avenue sewer were rejected by the Board as unsatisfactory, on September 12th, 1911.

On October 17th, 1911, the Board approved plans for a private sewer and disposal works for a portion of Woodbridge, subject to the usual conditions.

On October 24th, 1911, the Board approved, subject to the usual conditions, plans for a septic tank to be located at the outlet of the sewer on Woodbridge avenue.

WOODLYNNE.—On September 12th, 1911, the Board ordered that the authorities be notified to submit immediately plans of the piping which was being laid in several streets of the borough, in violation of the law.

The plans requested were later submitted, and on September 27th, the Board voted to await a report from this Division before acting on the matter, which report showed that work upon the laying of sewers had ceased.

WOODSTOWN.—Plans for a disposal plant for the treatment of wastes from the creamery of the Supplee Alderney Dairy were approved on June 13th, 1911, subject to the usual conditions. rend

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Report on the Sewage Disposal Plants in Operation or Under Construction in New Jersey, October 31st, 1911.

MAURICE R. SCHARFF, M. S., Field Assistant.

Mr. F. E. Daniels, Chief, Division of Sewerage and Water Supplies, Board of Health of the State of New Jersey, Trenton, New Jersey:

DEAR SIR—I beg to submit the following report on the sewage disposal plants of the State, covering the work that has been done during the past year, and the condition of each plant so far as is known at this time:

ALDENE.—Watson-Stillman Company. To handle sewage from its factory, the Watson-Stillman Company has installed a small plant comprising a septic tank and a cinder filter.

The sewage is run into the suction well of a steam ejector, which raises it about once an hour to the tank. This tank is 16 feet by 20 feet and 12 feet deep to the flow line. It overflows to the filter, which is 6 feet by 20 feet, and filled to a depth of one foot with cinders.

ALLENHURST.—The disposal plant at Allenhurst consists of a brick chamber, approximately 30 feet by 45 feet and 12 feet deep, situated below Ocean road at the corner of Elberon avenue, with its top about 4 feet below the roadway. It is divided into two unequal compartments, both of which are in constant use. The effluent is carried out to sea through an 8-inch outfall 800 feet long. There is an emergency overflow of 6-inch pipe, extending 50 feet into the sea, for use in case the main outfall becomes stopped.

An inspection made December 27th, 1910, showed that the tanks needed cleaning, and this was requested.

A reinspection on March 18th, 1911, showed that the tanks had been cleaned, and on July 1st, 1911, the plant was again inspected and reported in satisfactory condition, producing a somewhat cloudy effluent, but no odor.

ASBURY PARK.—Ross-Fenton Farm. The plant for disposing of the sewage and sink wastes from the Ross-Fenton Farm at Asbury Park, comprises a small septic tank, a siphon tank and an underground filter of sand and cinders.

The septic tank is circular, 5 feet 4 inches in diameter, and 6 feet 8 inches deep, drawn in at the top to a manhole ring. The sewage enters below the surface through a T-branch, and a scum wall protects the effluent pipe.

The siphon chamber is a circular well 4 feet 2 inches in diameter and 4 feet 8 inches deep, drawn in to fit a manhole ring at top. The tank is discharged intermittently to the filter by a 3-inch Miller Automatic Siphon.

The filter is 22 feet by 4 feet, with its bottom 10 feet under ground, and is filled to a depth of 4 feet 9 inches with gravel, cinders and sand. The effluent flows into Deal lake.

The plant was inspected July 18th, 1911, and appeared to be in satisfactory condition.

ASBURY PARK.—The Asbury Park septic tank is described in the State Board of Health Report for 1909, p. 227. This plant was inspected March 24th and June 29th, 1911, and it was found that the tank has been much of the time by-passed because of the obnoxious odors from the screen-chamber. As a result, complaints of the condition of the water on the beaches have been made. Plans have been filed for the improvement of the system by better flushing of the sewers, new screens, resetting pumps, improving distribution in tank and proper drainage of all sumps and manholes, and it is expected that conditions will be more satisfactory by next season.

ASYLA.—Camden County Institutions. The sewage disposal plant serving the Camden County Insane Asylum and the Almshouse, consisting of a screen-chamber, septic tank, primary and secondary gravel beds, has been described in the State Board of Health Report for 1909, p. 228.

The plant was inspected December 14th and December 17th, 1910, also on January 12th, April 18th, June 22d, September 12th and October 9th, 1911. In each of the last three cases, it was reported that the distribution on the beds was unsatisfactory, and the superintendent has been repeatedly urged to improve it. At the last inspection, however, no improvement was reported.

The superintendent has agreed to make daily putrescibility tests of the effluent, but at the last inspection had not yet commenced them.

ATLANTIC CITY.—The hypochlorite disinfection plant for the treatment of the sewage of the Chelsea district of Atlantic City, is situated at the end of Raleigh avenue near the Thoroughfare, and was put in operation about August 10th, 1911.

The plant consists of two underground retention chambers, each about 6 feet by 8 feet and 10 feet deep, separated by a wall in which there is a rectangular orifice which can be regulated by a gate. One tank receives the sewage and the other is connected by the outfall pipe with tide-water in the Thoroughfare. The hypochlorite solution is mixed in a concrete tank and run into one of two storage tanks, connected with a dosing box, in which a constant level is maintained by a float-valve. The orifice between the retention chambers is so throttled that there is a slight excess of head in the tank on the sewer side at times of minimum flow through the orifice, and a floating discharge pipe in the dosing box is so controlled through differential gears by floats on both sides of the orifice, that the flow of bleach solution is cut off when the tidal head is in excess, and varies with the excess head on the other side of the orifice. The effluent is discharged through a 16-inch pipe below low water into the Thoroughfare, a few feet from the bank.

There is no adequate provision for mixing the sewage with the disinfectant, and little or no storage before final discharge.

The plant was inspected July 1st, September 9th, September 18th and October 20th, 1911. During September, the automatic control apparatus was found out of order, but everything has since been put in good shape.

During the summer, about 42 pounds of hypochlorite are used each day, yielding about 13 parts per million of available chlorine on the estimated

flow of 160,000 gallons per day. Bacteriological tests by the American Water Softener Company and by this Board do not show very complete removal of bacteria, probably because of improper mixing and retention.

Avon.—The septic tank at Avon was described in the State Board of Health Report for 1909, p. 229.

Inspections were made December 23d, 1910, March 18th and July 1st, 1911. As a result of the first inspection, the tank was cleaned out, and has since been reported in satisfactory condition.

BELMAR.—The sewage disposal plant at Belmar is located under Ocean avenue, near the main Belmar pavilion, and was put in operation about June 1st, 1911. It consists of three concrete tanks, each 20 feet by 110 feet and 7 feet 6 inches deep on the average, each provided with a concrete scum wall near the inlet, and a longitudinal baffle to make the whole tank effective. Outlets for cleaning are provided near the point at which the sewage enters. The effluent is discharged through an iron pipe extending 500 feet into the sea.

At the first inspection on July 3d, 1911, it was found that the cleaning outlets were open, and sewage was passing directly through one end of the tanks without storage. This was remedied, but on August 1st, investigation of a complaint regarding smell from the plant, discovered a break in the outfall. Subsequent inspections on August 7th, 9th, 10th, 12th, and October 5th, 1911, discovered several more breaks, and it has been repeatedly urged that a thorough inspection of the whole outfall be made, and that a new pipe be laid if necessary, but at the last inspection nothing more than an unsuccessful attempt to patch the break had been done.

BORDENTOWN.—The Bordentown plant, consisting of screens, septic tanks, primary and secondary contact beds, settling basin with aërating weir and sand beds, has been described in the State Board of Health Report for 1910, p. 363.

Inspections were made after the plant was completed on June 27th and July 20th, 1911, but the plant was not put into operation until later. House connections have been made slowly, there being but 38 at inspection on September 14th, and 72 on October 18th. On October 18th, a break in the pipe from one septic tank to the contact filters had been caused by a cave-in, and sewage was being by-passed directly into the creek. A reinspection on October 24th, however, showed that this pipe had been repaired, and that the plant was in good condition.

BRADLEY BEACH.—The septic tank at Bradley Beach consists of two vaulted chambers, each about 75 feet by 15 feet, located on the beach about two blocks north of the La Reine Hotel.

Inspection on December 23d, 1910, showed the tanks in need of cleaning; on reinspection March 15th, 1911, they were found clean. Inspection on July 1st, 1911, showed the effluent to contain considerable fine suspended matter, but no large solids.

Plans have been approved and contracts let for a new tank to serve the southern portion of the borough.

BRIDGETON.—The Bridgeton sewage disposal plant consists of two hypochlorite disinfection plants, one on each side of the Cohansey creek.

At the Glass street plant, sanitary sewage flows by gravity to an ejector well, from which it is raised by two Blaisdell ejectors to the sedimentation beds.

The sedimentation basins, two in number, are each 100 feet by 12 feet and 7 feet deep to the flow line. The floors are pitched to sludge gates, by means of which the basins can be drained to the suction well of a triplex plunger pump, driven by a gasoline engine.

318 REPORT OF STATE BOARD OF HEALTH.

From the sedimentation basins, sewage flows over mixing weirs, at which the hypochlorite is added to the disinfection tanks. These are two in number, each 50 feet by 6 feet and 7 feet deep to the water line, and the floors pitch to sludge gates draining to the well of the triplex pump.

There are two hypochlorite mixing tanks, each 4 feet by 3 feet, by 3 feet 6 inches.

The mixing tanks, the two air compressors for operating the ejectors, the triplex pump and the gasoline pump are neatly housed in a pressed brick building.

The Water street plant is quite similar to the other, though smaller and there are no gates. Sewage flows directly to two sedimentation basins, each 70 feet by 9 feet and 7 feet deep to the flow line. These have sludge drains to the suction well of a triplex pump, driven by a gasoline engine, and overflow to the single sterilizing well, 18 feet 8 inches by 7 feet and 7 feet deep to the water line. There are two mixing tanks, each 3 feet by 3 feet by 4 feet, and these, together with the pump and gasoline engine, are in a neat pressed brick building.

Inspections were made on July 13th, September 13th and October 9th, 1911, and at the last inspection both plants were practically complete, but had not yet been put in operation.

Brown's Mills-in-the-Pines.—The old septic tank at Brown's Mills has been condemned and discarded, and an inspection on January 6th, 1911, showed that the sewage was flowing through an opening in the sewer line out upon the ground, where it sank into the ground. On September 26th, 1911, it was found that the sewer had been intercepted and extended about 2,200 feet to the site of the new disposal plant, plans for which have been approved but construction has not yet been commenced. It is expected, however, that the plant will be completed before the opening of the winter season.

Burlington.—The plant serving the city of Burlington consists of a septic tank and land beds, and has been described in the State Board of Health Report for 1909, p. 230.

Inspections were made on December 7th, 1910, January 16th, April 10th, July 20th, August 29th, September 21st and October 26th, 1911. In every case the plant was in extremely unsatisfactory condition. The stone strainers were thoroughly clogged, the filters were densely overgrown with grass and weeds, and unpurified sewage was reported flowing to the effluent ditch through breaks in the embankment. Although improvement has been repeatedly urged, none was shown at the latest inspection.

Burlington.—Thomas Devlin Manufacturing Company. The disposal plant treating the sewage and waste water from the works of the Thomas Devlin Manufacturing Company consisting of a septic tank, sprinkling filters, a settling basin and sand filters, has been described in the State Board of Health Report for 1909, p. 231. Inspections made on January 6th, April 21st, July 20th, September 21st and October 26th, 1911, showed the plant to be in fairly good condition, except that the sludge tank for receiving the septic tank sludge is improperly used. This is a tight, concrete tank with no provision for draining, and the scum on the surface is floated out upon the meadow in times of heavy rain.

On August 29th, the plant was found by inspection to be out of commission for several days, because of a break-down of the pumps. During this period, the sewage was run out on the ground near the plant.

CALDWELL.—Essex County Penitentiary. The ground absorption plant for disposing of the sewage of the Essex County Penitentiary, at Caldwell, has

been described in the State Board of Health Report for 1909, p. 231. An inspection was made on September 18th, 1911, and the plant was found in excellent condition. The absorption lines are regularly changed and rested, and no sewage appears at the surface anywhere.

CARLSTADT.—The septic tank at Carlstadt has been described in the State Board of Health Report for 1910, p. 363. An inspection was made March 7th, 1911, and the tank found in satisfactory condition.

CHANGEWATER.—Hopatcong Woolen Mills. The septic tank and sand bed of the Hopatcong Woolen Mills, at Changewater, have been described in the State Board of Health Report for 1910, p. 364.

An inspection was made on September 30th, 1911, and the plant found in excellent condition.

CHATHAM-MADISON.—The sewage disposal plant for the boroughs of Chatham and Madison, comprising high and low level settling tanks of the Imhoff type, primary and secondary contact beds, will probably be put in operation during the winter. Inspections of the construction work were made on May 1st, July 14th, July 26th and October 3d, 1911.

A complete description will be given when the plant is completed.

CLINTON.—Lehigh Valley Creamery. At Clinton, the Lehigh Valley Railroad has a small two-chambered settling tank in which the wastes from their creamery are treated with lime and settled. An inspection on April 7th, 1911, showed that the use of lime had been discontinued; it has, however, been resumed as was learned by reinspection on June 16th. The tank does not, however, remove the solids effectively, and what little is stored is washed into the drainage ditch whenever the tanks are cleaned.

COLLINGSWOOD.—The sewage disposal plant of the Collingswood Sewerage Company, comprising pumping station, septic tanks and four contact beds, is located at West Collingswood near Newton avenue. Sewage flows first to an old septic tank 22 feet deep, lying between two concentric circular walls, 40 feet 6 inches and 21 feet 2 inches in diameter. The depth to the invert of the inlet sewer is 5 feet.

The inner wall, connecting with the septic tank by openings through the inner wall, is the suction well of the centrifugal pumps which raise the sewage to the new septic tanks. These tanks, two in number, are 125 feet long and 7 feet deep, but of unequal width, 6 feet and 25 feet respectively. Sewage flows through both in succession.

From the tanks, the sewage flows to one of four contact beds, each 60 feet by 40 feet, filled to a depth of 2 feet 10 inches with 1-inch stone, and with a 2-inch layer of fine stone on top.

The effluent from the plant flows into Newton creek.

Inspections were made on November 25th, 1910, and on January 11th, February 24th. April 22d, June 22d, July 19th, August 28th, September 11th, September 12th and September 27th, 1911. The tanks were cleaned in September, the sludge being pumped into a trough and run into a low place which has been cut off from the creek by an embankment. When sufficiently drained, this is to be covered with earth.

The plant is heavily overloaded, the filters being dosed at times as often as every two hours, and the flow through the tanks being sufficiently rapid to carry considerable solid matter to the beds. Two additional contact beds were provided for on the approved plans, but these have never been built.

The pumping capacity is not sufficient to handle the storm flow, and at such times an emergency overflow passes part of the sewage directly to the

stream. It is expected that additional pumping capacity will be provided at once.

The attendant has agreed to make daily putrescibility tests, but had not commenced them when last visited.

COLTS NECK.—Colts Neck Creamery Company. At Colts Neck, the Colts Neck Creamery Company has installed a tank 3 feet by 6 feet and 3 feet deep, in which their wastes are settled and treated with lime. An inspection was made on October 4th, 1911, and the plant was found clean and in good condition.

CRESSKIIL.—The septic tank serving a group of about 25 houses on the hillside at Cresskill, is about 10 feet by 18 feet, 4 feet deep at one end and 2 feet deep at the other, and divided into two equal chambers. An inspection was made on September 20th, 1911, and while there was no odor and lime was freely spread about the house, the chamber into which sewage was flowing was nearly filled with solids and needed cleaning.

DEAL BEACH.—The Deal Beach septic tanks have been described in the State Board of Health Report for 1909, p. 232. Inspections were made on December 27th, 1910, and on July 6th, 1911. It was reported that the tank was clean, but that there was a leak in the outfall pipe on the beach.

The outfall pipe reaches only about 150 feet beyond the surf.

DEAL BEACH.—Deal Golf Club. The disposal plant of the Deal Golf Club, at Deal Beach, comprises a setting tank, a dosing chamber and two sand filters.

The settling chamber is 5 feet by 4 feet and 5 feet deep to the flow line, with a baffle wall across the middle. The dosing chamber is 8 feet by 4 feet and 23 inches deep to the flow line. It is discharged to the sand beds intermittently by a 5-inch Miller Automatic Siphon. Both tanks are of concrete and under ground.

The sand beds are each 30 feet by 10 feet, and filled to a depth of 2 feet 6 inches with sand, laid on gravel. The effluent flows to a ditch draining into Deal lake.

An inspection of the construction was made on March 24th, 1911, and the operating plant inspected on September 1st, 1911. It was then found that the surface of both beds needed cleaning, that the siphon was out of order and that sewage was running continuously to one bed, which was filled and over-flowing.

It was subsequently reported that the siphon had been fixed under the direction of the Pacific Flush Tank Company, and was working perfectly.

EAST RUTHERFORD.—The septic tank at East Rutherford, serving parts of the boroughs of East Rutherford and Carlstadt, has been described in the State Board of Health Report for 1910, p. 364.

Inspections were made on March 7th and on September 19th, 1911, and the tank was reported in good condition.

ENGLEWOOD.—Three settling tanks are being built to dispose of the sewage of Englewood. An inspection on September 28th, 1911, showed the excavation nearly completed, but no actual construction started. A full description of this plant will be given on its completion.

Essex Fells.—The sewage disposal plant at Essex Fells, comprising a septic tank, two contact beds and seven sand filters, has been described in the State Board of Health Reports for 1909 and 1910, pp. 233 and 364 respectively.

Inspections were made on January 19th, April 24th, August 1st and on September 18th, 1911. It was found that the two contact beds were connected and that sewage was flowing continuously to both, the automatic dosing siphon having been out of commission for a long time. The beds could not be



HADDONFIELD: Part of Sprinkling Filter and Settling Basin.



HADDONFIELD: Sprinkling Filter in Action of by Google

properly operated, however, even if the siphon worked, as the beds would have to be dosed every one and one-half to two hours to handle the flow. No contact period could be had without increasing the area of the contact beds.

The sand beds are dosed intermittently, one bed being used each day and dosed about every four hours. The final effluent appears quite satisfactory, and all samples have been non-putrescible.

The attendant has agreed to make daily putrescibility tests of the effluent. FLEMINGTON.—The sewage disposal plant at Flemington, including a settling tank, screens and land filters, has been described in the State Board of Health Report for 1909, p. 233.

Inspections were made on December 28th, 1910, and on February 15th, June 21st, June 24th, July 28th and September 28th, 1911, and the plant was found in good condition. The beds are changed daily, and while the distribution is poor, the effluent appears satisfactory. While not entirely clear and producing some cloudiness in the stream below, it has been non-putrescible when sampled, and there are no objectionable growths in the stream.

The effluent drains into a branch of the Raritan river, which is used as a source of water-supply below.

FREEHOLD.—The dosing tank and seven land beds at Freehold have been described in the State Board of Health Report for 1909, p. 234. Three or four beds are commonly in use each year, the remainder being planted in corn and oats.

The beds have usually received attention and been kept in good shape, but trouble has been experienced with sewage passing directly through to the underdrains without purification by means of breaks in the beds, possibly due to burrowing animals.

An inspection on December 29th, 1910, showed the beds to be turning out a fairly well purified, non-putrescible effluent, but inspections on February 16th, July 7th and September 16th, 1911, showed unsatisfactory purification.

GLEN GARDNER.—New Jersey Sanatorium for Tuberculous Diseases. The septic tank, trickling filters, settling basin and cinder beds treating the sewage of the New Jersey Sanatorium for Tuberculous Diseases, at Glen Gardner, have been described in the State Board of Health Report for 1909, p. 234.

This plant is one of the worst in the State in condition. Inspections were made on April 7th, June 16th, July 29th and September 30th, 1911, and in every case it was reported that the septic tank was nearly filled with solids, most of the trickling filter nozzles clogged, the trickling filters clogged and one of them overflowing to the surface of the ground, and the cinder beds overflowing down the side of the hill. A broken pipe leading to the trickling filters also contributes some septic sewage to the hillside. These matters have been repeatedly called to the attention of the authorities, not only during the past year but before, yet no steps appear to have been taken to remedy the condition.

The effluent from this plant is commonly absorbed in the ground during its passage down the slope, but complaints have been made that, at times (probably when the ground is saturated by rain), the sewage flows in a continuous stream to a tributary of the south branch of the Raritan river, from which unfiltered water is used as part of the public water-supply of Flemington.

HADDONFIELD.—The old portion of the Haddonfield sewage disposal plant consisting of a septic tank and sand filters, has been described in the State Board of Health Report for 1909, p. 235. Recently, two of the five sand beds have been replaced by a sprinkling filter and a settling basin.

322 REPORT OF STATE BOARD OF HEALTH.

The trickling filter is 98 feet 6 inches by 106 feet, and composed of 5.4 feet of broken stone. It is dosed automatically by a siphon tank designed to vary the head so as to give a uniform rate per unit of area. The sewage is applied to the filter by 72 pressure nozzles, 36 of the Taylor Hexagon type and 36 of the Reading type. The latter appear to give a greater throw for the same head. The effluent is carried by tile underdrains to a concrete settling basin about 80 feet square and 3 feet deep, with outlets both to the creek, and to the three old filter beds.

The sprinkling filter was put in operation on Saturday, September 9th, 1911.

Inspections previous to and during the construction of the trickling filter were made on December 17th, 1910, and on March 15th, June 22d and July 19th, 1911, and at these times the septic tank effluent was being run directly into the creek.

After the plant was put in operation, inspections were made on September 12th and October 9th, 1911. On the former occasion it was found that a small part of the tank effluent was being by-passed to the creek by an over-flow in the septic tank, and by the nozzles along the edges of the trickling filter spraying out upon the ground. At the later inspection, these nozzles had been replaced with proper half-nozzles, but the overflow had not been closed as requested.

The trickling filter effluent was clear and bright, but not non-putrescible, possibly because the filter has not had time to become properly seeded.

The attendant at this plant agreed to make daily putrescibility tests, but at the last inspection had not yet commenced them.

HADDON HEIGHTS.—The new sewage disposal plant at Haddon Heights, comprising septic tanks, coke strainers, a dosing tank and sand beds, was completed early in August, 1911.

Sewage flows into a fan-shaped septic tank, 39 feet long, 25 feet and 36 feet wide at the ends, respectively, and 8 feet on the average to the flow line. This tank is divided by a 12-inch wall into two unequal chambers, capacity, 23,400 and 46,800 gallons respectively, both overflowing into a concrete trough leading to the coke beds.

These coke beds, eight in number, are each 38 feet by 9 feet and 4 feet 6 inches deep. Each is separated by open brick walls from side chambers of the same length and depth, and 24 and 36 inches wide respectively. When filled, they overflow into a trough leading to the dosing tank. Provision is made for draining the coke beds to a single sand bed, which can also receive the sludge from the septic tank.

The concrete dosing tank holds about 12,000 gallons, and is discharged through alternating automatic siphons to one of the sand beds in use at the time of discharge. Beside the sludge bed already mentioned, there are six sand beds, each 2 feet 6 inches deep, and covering a total area of about one and one-eighth acres. All the beds are thoroughly underdrained, with ventilating pipes at the head of each drain line, and, with one exception, each is provided with a manhole for ventilating and cleaning the underdrains. All the valves used in the plant are plug valves, seating on horizontal rings, and held in place only by their own weight. The effluent flows into a small stream, called King's run.

An inspection of the plant was made on August 22d, 1911, very shortly after it was put in operation. Already, at that time, complaints had been made of the unusually disagreeable odor from the plant. Later visits on September 11th and 12th, found the odor still worse, and it was recommended



HADDON HEIGHTS: Septic Tank and Primary Coke Beds.



HADDON HEIGHTS: Secondary Sand Beds.

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that the coke beds be cut out, as the trouble was obviously due to excessive storage of the sewage, and as these coke beds were accomplishing nothing save an undesirable increase in storage. It was noted, also, that although sewage was flowing only into the smaller septic tank, it was flowing out of both.

Finally, in response to a formal complaint lodged against the plant by an owner of adjoining property, a thorough investigation was made from October 3d to 6th.

It was found that only 72 house connections had been made, and that the flow was averaging about 18,000 gallons per twenty-four hours. A connecting pipe between the chambers of the septic tank, placed under the floor and not shown on the plans, was found open, making both chambers effective, and giving a calculated tank storage of about four days.

The coke beds were being used one at a time for about a week at a time, and as they were thus kept anaërobic, they allowed additional septic action for about twelve hours. Finally, the dosing tank was emptied only about every 16 hours, on the average.

The plant was an unusually good demonstration of the effects of oversepticization, and it is not surprising that the sewage smelled putrid as it flowed through the open tank effluent channel and out upon the beds.

The connecting pipe between the septic tank chambers was closed, and the small tank only put in use; the storage being thus reduced to 25-30 hours, and the coke strainers were cut out.

While the storage period is still excessive, and while there may be further complaint before the flow becomes sufficiently large to reduce it materially, an inspection on October 16th, showed no odor noticeable except inside the tank effluent channel, and the former complainant stated that "although he had sniffed his hardest, he had been unable to smell the plant at all recently."

The attendant makes daily putrescibility tests of the effluent.

HILLIARD'S ISLAND.—A. H. Riggs. The private disposal plant of Mr. A. H. Riggs, at Hilliard's Island, photograph of which was shown in the State Board of Health Report for 1909, consists of a septic tank, dosing tank and sand filter. All masonry is of concrete, and the total cost did not exceed one hundred dollars.

The septic tank is 6 feet 8 inches by 3 feet 8 inches and 7 feet deep to the flow line. The dosing tank is 4 feet by 3 feet 8 inches and 3 feet deep to the flow line. The sand filter is 4 feet 3 inches by 3 feet 8 inches and is filled to a depth of 4 feet with sand, laid on a base of coarse gravel and stone. It is intermittently dosed by a Miller Automatic Siphon.

The plant is very compact, and has done very satisfactory work. It was inspected on March 20th, 1911.

INTERLAKEN.—The septic tank and pumping station at Interlaken have been described in the State Board of Health Report for 1909, p. 235.

It was visited on December 27th, 1910, and on September 1st, 1911, and both times the electric pumps were out of commission; on the latter date, the well was filled by the heavy rains and overflowing through the manholes over the roadway to Deal lake.

On inspection made March 18th and on September 6th, 1911, one pump was found running and on the latter date, the work of repairing the other was in progress.

ISLAND HEIGHTS.—The screen and the sand beds, which treat the sewage of Island Heights, have been described in the State Board of Health Report for 1910, p. 364.

Inspections of this plant were made on July 1st, July 5th and on September 27th, 1911, and it was reported as suffering from a uniform lack of attention. The basket screen is not cleaned out as regularly or as often as it should be; the beds are not changed often enough, and are not level; the underdrainage appears inadequate, and much of the sewage must seep through the banks to the stream. An automatic dosing apparatus would be a great improvement.

JAMESBURG.—State Home for Boys. The flush tanks and land filters for treating the sewage of the State Home for Boys, at Jamesburg, have been described in the State Board of Health Report for 1909, p. 236.

Inspections were made on January 4th, March 9th and 14th, August 4th and September 23d, 1911. It was found that somewhat more attention has been paid to the plant than formerly, the beds having been ploughed up and harrowed occasionally during the past year. It is essential that this be continued, as the ground is unsuitable for sewage filtration.

The sludge removed from the flush tanks was piled around the tanks, and some of the beds have, at times, been so badly clogged that sewage stood on them for several days.

The effluent analyses during the year have all shown unsatisfactory purification and putrescibility.

KEYPORT.—A plant for the disinfection of the sewage of Keyport with hypochlorite of lime is under construction and may be completed during December, 1911. The construction work was inspected on July 1st and 22d and on October 12th, 1911. A full description of the plant will be given on its completion.

LAKEHURST.—The old sewage disposal plant at Lakehurst serving the Pine Tree Inn and cottages and a few other houses, was described in the State Board of Health Report for 1909, p. 237. Since then, plans for two new beds each about 75 feet square have been approved, and one has been built. An inspection was made on September 27th, 1911, and the second bed found about half built. As the hotel and cottages were not open, there was little or no flow to the bed at that time.

LAKEWOOD.—The sewage disposal plant at Lakewood was originally planned and partly built in duplicate, two sets of settling tanks, screen chambers and sand beds being provided, one set about 5 feet lower than the other. The low level plant was never quite completed and has been entirely discarded, the underdrains having been removed from the sand beds.

In the high level plant, which is now in use, sewage enters first a small tank intended for a bar screen chamber; but the screen has never been installed. This empties into a "settling chamber," 10 feet by 10 feet and 5 feet deep, but receives practically no sedimentation before flowing to the screen tank. The tank, also, is 10 feet by 10 feet and 5 feet deep, and contains a horizontal screen of salt hay between wire frames. Sewage flows upward through the hay, and then to the sand beds, four in number, each about 100 feet square. Two additional beds of the same size have been partly constructed and could be prepared for use in a few days. The effluent flows into Metedeconk river.

Inspections of this plant were made on March 14th and 16th, July 7th and on September 23d, 1911, and the operation of the plant was found unsatisfactory. The screens had not been cleaned regularly, and the sand beds, which are operated by hand, had been alternated only when the attendant considered it necessary—the interval being sometimes as long as two weeks. As a result, the bed in use has generally been kept continually flooded, and there must be some overflow to the river through the underdrain ventilators, which extend but a few inches above the sand.

Such analyses as have been made indicate putrescibility and unsatisfactory purification.

The superintendent has been notified to have the beds changed at least once daily and, if this is done, the results should be better. An automatic device for intermittent dosing of the beds would be a great improvement.

The attendant agreed to make daily putrescibility tests of the effluent.

On account of complaints against the plant by adjacent residents, the owners of the plant (the Lakewood Water, Light and Power Company) are contemplating abandoning it and building a new plant about a mile down the river.

LAWRENCEVILLE.—Lawrenceville Preparatory School. The septic tanks and land irrigation area of the Lawrenceville Preparatory School, at Lawrenceville, have been described in the State Board of Health Report for 1909, p. 237.

Inspections were made on March 31st and September 29th, 1911, and the septic tanks were found to be in excellent condition. The irrigation field, however, receives little attention, and the distribution is extremely poor; but on account of the removal of solids in the tank, and the large land area available, the sewage appears to be handled satisfactorily.

LOCH ARBOUR.—The Loch Arbour septic tank is a circular brick well 20 feet in diameter and 9 feet deep to the flow line, located under the beach near the United States Life Saving Station, at the foot of Deal lake. About 40 houses are connected with the tank, only four of which supply sewage in the winter.

The effluent is carried out to sea in an iron pipe 1,000 feet long.

The tank was inspected on December 27th, 1910, and on July 6th, 1911, and was reported to be in satisfactory condition.

Long Branch.—The only treatment of the sewage of Long Branch is screening through several sets of screens, the finest of which has three-quarter-inch mesh. The screens are cleaned regularly, and the screenings carted away and buried. Great care is taken to keep the screen-house clean and free from odor; large quantities of pinolyptol and other commercial disinfectants being used.

From the screen chamber, the sewage flows to a tidal tank 400 feet long, 7 feet wide and 6 feet deep, under Broadway near the beach. This tank discharges directly into the ocean about 800 feet out and the tide, of course, backs into the tank at flood.

On October 13th, 1908, Long Branch was notified to cease polluting the Atlantic ocean prior to May 1st, 1909, but no change has been made in the system of disposal.

Inspections were made on October 4th and October 11th, 1911, and no effect of the sewage discharge was visible.

MADISON.—Residence of the late Dr. Leslie D. Ward. The sewage and sink wastes from the residence of the late Dr. Leslie D. Ward, at Madison, and the carriage-wash from his stable, are treated at a private plant, consisting of a septic tank, a siphon chamber and two sand beds.

The septic tank is 16 feet by 5 feet and 2 feet deep to the discharge level of the siphon. At the outlet of the tank are placed a bar screen of one-half-inch square bars, spaced at five-eighths-inch, and a wire screen of three-quarter-inch mesh.

The siphon tank is circular, about 4 feet in diameter, 1 foot 6 inches deep to the flow line, and drawn in at the top to a manhole cover.

Each of the two sand filters is 30 feet by 33 feet, and filled to a depth of 3 feet 6 inches with screened sand. The underdrains discharge into a ditch flowing to the Passaic river.

MAHWAH.—American Brake Shoe Company. The flush tank and sand beds treating the sewage of the American Brake Shoe Company factory, at Mahwah, have been described in the State Board of Health Report for 1910, p. 365. It was inspected on September 29th, 1911, and found to be turning out a clear, bright, non-putrescible effluent.

Manasquan.—The septic tank at Manasquan has been described in the State Board of Health Report for 1910, p. 367. An inspection was made on March 20th, 1911, and the tank found badly in need of cleaning. A reinspection on July 3d, 1911, showed that it had been thoroughly cleaned and was in excellent condition.

MARGATE CITY.—At Margate City, two hypochlorite disinfecting plants have been built, situated at the ends of Adams and Nassau avenues. The plants, as built, differ considerably in dimensions and arrangements from the plans approved by the Board.

These plants were visited on July 11th, September 9th and September 19th, 1911, but at the last inspection no water connections had been made; no chemicals were on hand, and neither plant had been put in operation. The floor of the Nassau avenue plant is not properly drained, and on both the visits in September, was found a foot or more under water.

The sewage of Margate City was entering the Thoroughfare without treatment at the last report.

MEDFORD.—The sewage disposal plant at Medford consists of septic tanks and sand beds. When it was built, three old cesspools were utilized as septic tanks. The first of these is circular in shape, 7 feet in diameter and 7 feet deep; from this, the sewage flows into the second tank, which is oval in shape, 14 feet long and about 10 feet wide and 7 feet deep; the sewage then flows into a third tank, circular in form, 8 feet in diameter and 7 feet deep. The first tank has a bottom constructed of concrete, but the other two have simply sand bottoms.

From the tanks, the sewage passes to two sand filters each 20 feet by 30 feet.

This plant was inspected on August 4th and September 5th, 1911. Sewage was found running continuously to one bed, and the beds are not changed as often as they should be. An automatic siphon for dosing the beds intermittently would be a material improvement.

MERCHANTVILLE.—The Merchantville plant, consisting of septic tanks, flush tank, coke strainers and sand beds, has been described in the State Board of Health Report for 1909, p. 237.

Inspections were made on December 8th, 1910, and on January 5th, February 21st, March 16th, April 25th, June 22d, July 14th, September 5th and October 16th, 1911; the same conditions being found in every case. The small septic tank, which is not in use, had about 6 feet of scum on it and had not been cleaned at the last report, though it has been repeatedly urged. The large tank which is now in use, had 2 feet of scum on September 5th, and will probably soon be in the same condition as the small one.

The automatic siphons for discharging the flush tank to the coke beds have been found running continuously at practically every visit, as the flow far exceeds their capacity. The town has agreed to install larger siphons, but at last report nothing had been done about it. The coke strainers were found clogged to a considerable extent, and the sand filters have been reported clogged and needing cleaning. A rough estimate of the flow, February 24th, 1911, indicated a net rate at that time of about 800,000 gallons per acre per day.

In spite of these conditions, the effluent from the plant has been clear and, occasionally, non-putrescible. The purification accomplished appears to vary widely at different times.

MILLVILLE.—The disposal plant of the city of Millville consists of four sedimentation tanks, an aërating well and tank, four contact beds controlled by the Aerlock system, and an effluent detention basin.

The sedimentation tanks used in series, are each 76 feet 6 inches by 15 feet and 6 feet deep to the flow line. The effluent discharges into a funnel set in the inner pipe of the aëration well—an 8-inch pipe about 136 feet long. The outer casing of the aërating well is a 12-inch pipe. The septic sewage is supposed to go down the inner pipe and come up through the annular space into the aëration tank 30 feet 6 inches by 19 feet 6 inches and 3 feet deep to the flow line

The Aerlock siphons discharge upon the contact beds, each 100 feet by 50 feet, and filled with 3 feet of broken stone. The effluent from these beds passes again through the control house, dissolving copper sulphate from cans dipping into the effluent pipes, and flows to the detention tank.

This tank is about 200 feet by 65 feet, with a minimum total depth of 6 feet. At low tide, the disinfected contact effluent flows directly into the Maurice river, but when the tide rises flap valves close off the outlet and the effluent is stored until these valves are reopened on the falling tide.

The sludge from the sedimentation basins is supposed to be run to a coarse sand filter in a tight concrete basin 49 feet 6 inches by 28 feet 6 inches. The underdrainage of this bed runs to a sump, from which it is supposed to be pumped back into the tanks, while the sludge was to be left to dry until ready to cart away. This bed, however, has never been used.

Inspections of this plant were made on November 26th, 1910, and on January 18th. February 9th, May 4th, July 12th, September 14th and October 10th, 1911. The first two sedimentation basins were found every time in need of cleaning, the first one being filled with solids to about 6 inches above the walls. Sludge from the last cleaning had been thrown out on the ground and surrounded the tanks. The aëration well was probably stopped up, for most, if not all, of the sewage was merely splashing over the sides of the funnel.

The Aerlock siphons were repeatedly found out of commission with sewage flowing continuously on one or more beds. The beds were badly clogged, and, at times, would remain flooded over practically the whole surface.

The copper sulphate cans were at times empty though at the last inspection they were found filled.

As a result of these conditions, an investigation of the plant was made October 16th-18th. Conditions were found as before, and gaugings of the flow and careful observations of the behavior of the plant made.

Weir measurements indicated an average flow during the afternoon of October 17th, at the rate of over 1,000,000 gallons per day. On this basis, the calculated storage in the sedimentation basins was 5.4 hours, and the actual storage, because of reduction of volume by solids, probably not much over half this. The calculated rate on the contact filters (each of which was dosed every 2.5 hours) was over 2,000,000 gallons per acre, per day, and the calculated per cent. of voids about 27.

The ineffectiveness of the Aerlock siphons was found to be due to the backing up of the detention tank above the air bells, and to the consequent repeated dosing of a bed without giving its cut-off bell opportunity to get air. In small part this is due to leakage of tide-water into the tank, as the flap valves closed very slowly; but chiefly, the trouble was due to the combination of excessive flow and the inadequate area of the storage tank. This could be remedied either by preventing the tank level from ever rising above the air bells; through enlarging the tank or pumping all excess; or by increasing the interval between doses so that the tide would always fall lower than the bells between doses. This could be done by cutting down the flow, washing the stone to increase the voids, and building additional contact beds.

The effluent from this plant has been partially, but not completely, disinfected and it has generally been putrescible.

MONTAGUE.—Rock Spring Creamery Company. The creamery wastes from the Rock Spring Creamery Company, at Montague, are run into a tank of about 800 gallons capacity, where they are supposed to be treated with lime in the manner outlined in the State Board of Health Report for 1909. inspection on September 26th, 1911, however, revealed the fact that these directions were not being properly followed, and that the tank was not being cleaned often enough, so that it had been filling up and overflowing to the river, causing a local nuisance. Instructions were given which, if followed, should give satisfactory results.

MOORESTOWN.—The sewage disposal plant at Moorestown, consisting of septic tanks and contact filters, has been described in the State Board of Health Report for 1909, p. 238.

An investigation of this plant was made on March 7th, 1911. It was found that the rate of flow at this time was about 500,000 gallons per day. On this basis, the total calculated storage in the tanks was about one and one-fifth hours, but as the grit chamber and first settling basin were practically filled with solids, the storage was much less than this. In fact, uranine placed at the entrance to the plant appeared in the effluent of the filters in just one hour.

The net rate on the filters (including periods of rest) was at this time 1,250,000 gallons per acre per day, and the actual rate during dosing, about 6,250,000 gallons per acre per day.

The automatic siphons for dosing the contact beds intermittently are unable to handle the excessive flow during the day, and never break except at time of light flow during the night. The beds are changed once or twice a day, all the flow running continuously to one bed (except at night when the siphon breaks).

Inspections made on March 13th, June 30th and September 5th, 1911, showed conditions the same—tanks overloaded with solids, sewage flowing continuously to one bed, and passing through the plant very rapidly.

In spite of these conditions, it is the remarkable fact that analyses made on December 21st, 1910, and on January 25th, 1911, showed considerable oxidation, and a series of hourly samples taken on March 7th, 1911, were nonputrescible up to the sample taken at 4:30 P. M.

The plant is, of course, tremendously overloaded and must eventually be extended. Until this is done, it would be a great help to have an automatic apparatus installed for filling and discharging the beds alternately, and this is now being contemplated.

MORRIS PLAINS.—The New Jersey State Hospital. The two sewage disposal plants of the New Jersey State Hospital, at Morris Plains, for the insane, consisting of a land irrigation system, and a sand filter plant, have been described in the State Board of Health Report for 1909, p. 289.

Inspections were made on July 27th and September 21st, 1911, and both plants were found in excellent condition. The tanks are cleaned regularly and the sludge composted with lime so as to prevent all smell. The irrigation field absorbs its dose readily, no sewage appearing at the surface more than 50 or 60 feet from the distribution ditches, and the sand filters turn into the pond below an effluent that is non-putrescible and unusually clear and bright.

Morristown.—The septic tank, contact beds and sand filters at Morristown, have been described in the State Board of Health Report for 1910, p. 366. Inspections were made on February 20th, May 1st, July 12th, July 27th and September 21st, 1911, and the plant found in excellent condition. The attendant makes daily putrescibility tests, and the effluent appears to have been regularly non-putrescible.

NESHANIC.—Lehigh Valley Railroad Creamery. Two tanks, each 5 feet by 12 feet and 3 feet deep, have been installed at the Lehigh Valley Railroad Creamery, at Neshanic, for the settling and treatment with lime of the creamery wastes.

This plant was inspected on July 28th, 1911, and found in good condition and free from objectionable odors.

NEW LISBON.—Burlington County Hospital for the Insane. The old sewage disposal plant at the Burlington County Hospital for the Insane, at New Lisbon, was condemned and ordered rebuilt, notice being served on September 28th, 1908. An inspection on February 21st, 1911, showed that nothing had been done towards reconstructing the plant, and on September 27th, 1911, it was found that the slag had been removed from the old filter, and that the entire sewage flow was being by-passed without any treatment whatever into a ditch draining to Rancocas creek, which is used just below as a source of water-supply by Mount Holly.

NEW LISBON.—Burlington County Almshouse and Hospital. The tile absorption disposal plant at the Burlington County Almshouse and Hospital, at New Lisbon, is described in the State Board of Health Report for 1909, p. 240.

It was inspected on February 21st and on September 27th, 1911, and found to be in excellent condition. No sewage appears at the surface of the ground.

New MILFORD.—The septic tank at New Milford, which serves part of the borough of Delford, has been described in the State Board of Health Report for 1909, p. 232.

An inspection was made on September 20th, 1911, and the tank found in good condition with but little scum and sludge.

NEWTON.—The two sewage disposal plants at Newton, known as the Clinton street plant and the Sparta street plant, consisting in each case of a septic tank and sand beds, have been described in the State Board of Health Report for 1909, p. 240.

These plants were inspected February 3d, July 27th and September 22d, 1911, and appear to have careful attention, and to be in good shape. Trouble has been experienced at the Clinton street plant, however, because of clogging and growths, conditions which are due to the incomplete drainage of the beds on account of the backing up of water in the ditch into which the underdrained discharge.

OCEAN CITY.—A hypochlorite plant for disinfecting the sewage of Ocean City has just been installed.

Sewage flows first through a bar screen, made of one-half-inch bars spaced at one inch, and inclined at about 35 degrees with the horizontal. It then enters one of two tanks of the "biolytic" type, developed by Winslow and Phelps, at Boston. Each of these tanks is 16 feet 10 inches by 50 feet; the flow section being V-shaped, 7 feet 6 inches deep and 1 foot 10 inches wide at the bottom. The sewage enters the tank by flowing into a rectangular channel 12 inches wide and 9 feet deep, formed by two vertical 5-inch walls running the full length of the tank and, passing through openings in the base of the walls, flows upward with diminishing velocity, finally passing over long, knifeedge, overflow weirs to 12-inch effluent pipes in the side walls.

These pipes discharge into a rectangular channel 2 feet wide and 7.4 feet deep. At this point the hypochlorite solution is added and the sewage overflows a 7-inch wall into the disinfecting tank. This tank is 32 feet 7 inches by 30 feet, with a depth of about 7.2 feet. An overflow baffle-wall, V-shaped in plan, is placed near the inlet end and the disinfected sewage finally overflows an outlet weir to the discharge pipe.

The methods of operation contemplate an addition of about six parts available chlorine per million gallons of sewage.

This plant was inspected on September 14th, 1911, and found to be nearly completed.

OCEAN GROVE.—The Ocean Grove septic tank was described in the State Board of Health Report for 1909, p. 241.

The tank was inspected on December 27th, 1910, and found to be badly in need of cleaning. A reinspection on March 15th, 1911, showed that this had been done, and on June 29th, 1911, the tank was found in excellent condition.

OVERBROOK.—Essex County Hospital for the Insane. The septic tanks, contact beds and sand beds of the Essex County Hospital for the Insane have been described in the State Board of Health Report for 1909, p. 242.

Inspections of this plant were made on December 27th, 1910, and on February 6th, August 1st and September 21st, 1911, and found in uniformly good condition and turning out a clear, bright, non-putrescible effluent.

The old septic tank, built about 1895, and never yet cleaned out, has no scum on it, and only a few inches of sludge in the bottom. For about three years it has received only a small flow, chiefly of laundry wastes, but up to that time it handled all the sewage of the institution.

The attendant agreed to make daily putrescibility tests of the effluent.

PEMBERTON.—The settling basin and land disposal area at Pemberton have been described in the State Board of Health Report for 1909, p. 243. During the past year, a pumping station for raising the sewage of a few houses in North Pemberton to the plant has been put in operation. Altogether about 60 houses are connected to the system.

In spite of the extremely primitive character of this plant, it appears to dispose of the sewage satisfactorily. The settling basin is not objectionable in smell or appearance, and the sewage disappears in the ground within a short distance of the basin. This is probably due to the fact that the sewage is not only small in quantity but very weak, many of the house connections contributing roof water only.

PLAINFIELD.—The septic tanks, contact beds and sand filters at Plainfield have been described in the State Board of Health Report for 1909, p. 243.

This plant was inspected on January 9th, March 11th, July 31st, September 7th, September 20th and on October 11th, 1911. The plant is very heavily overloaded, so that it is impossible to hold the contact beds full, and the

contact beds are badly clogged. Steps are being taken by the city to have additional beds built.

There has been some complaint about the odor from the stream below the plant. The effluent is regularly analyzed, and daily putrescibility tests of the effluent made by the chemist have shown uniform non-putrescibility. Samples taken by representatives of the Board, however, have all decolorized methylene blue in from one to seven days.

PLEASANTVILLE.—New Rodney Hotel. The sewage from the New Rodney Hotel, at Pleasantville, is treated in a private plant consisting of septic tanks, a flush tank and a stone bed.

The septic tanks are two old brick circular cesspools, which are used in series, and appear to remove the solids satisfactorily. The flush tank discharges automatically to a stone filter, 12 feet by 8 feet and filled with 2 feet of crushed stone. The sewage passes through this bed rapidly, and flows into a ditch draining to tidewater.

Inspections were made on July 11th, July 31st, September 9th and October 20th, 1911, and the plant was found in good condition. The effluent was well clarified, but a sample taken October 20th, decolorized methylene blue in less than twelve hours. More, however, could scarcely be expected from a shallow stone filter through which sewage is run without a period of contact.

POINT PLEASANT.—The Point Pleasant septic tank was described in the State Board of Health Report for 1909, p. 244. This tank was inspected on December 21st, 1910, and found badly in need of cleaning. This was ordered done but had not been done at the time of reinspection, July 3d, 1911.

PRINCETON.—The three sewage disposal plants serving the three sewer districts of Princeton—known as the "College System," the "West System" and the "Northeast System"—have been described in the State Board of Health Report for 1909, p. 244.

Inspections were made on December 16th, 1910, and on January 3d, September 18th and October 30th, 1911. The sand beds at the Northeast Field were not in use during the first half of 1911, sewage being by-passed to the old irrigation area with unsatisfactory results. The use of the beds, however, was resumed about August 1st, 1911.

The distribution on these beds is poor, and there are fungus growths in the effluent, analysis of which shows a fair degree of purification.

The College Field is densely overgrown with weeds, and the distribution is poor. At times, it is said, that sewage flows over the surface of the ground directly to the lake.

At the West Field, the distribution is not changed frequently enough from one part of the field to another, and it is possible for sewage to run directly to the brook on account of the marshy condition of the lower part of the field.

QUARRYVILLE.—Horton & Lewis Cream Company. See State Board of Health Report for 1910, p. 367.

RAHWAY.—New Jersey State Reformatory. The "biolytic" tank and hypochlorite disinfection plant for treating the sewage of the New Jersey State Reformatory has been described in the State Board of Health Report for 1910. p. 367.

Inspections were made on March 17th, March 31st, August 2d and on September 20th, 1911. On March 31st, it was found that the plant was being by-passed by discharging the sewage into a storm sewer. On the other occasions, however, it was found to be turning out a well clarified effluent treated with about 5.5 parts per million of available chlorine.

The "biolytic" tank, when inspected on September 20th, had a scum on the surface about 4 feet thick.

RALSTON.—See State Board of Health Report for 1910, p. 368.

RED BANK .-- The septic tanks at Red Bank have been described in the State Board of Health Report for 1909, p. 245. As a result of inspections made on December 6th and December 27th, 1910, it was directed that the tanks be cleaned out as they were nearly filled with solids. This was done about March 1st, 1911,—the only cleaning the tanks have had in about six years of use.

Subsequent inspections were made on March 20th, July 1st, July 8th and on September 16th, 1911, and while conditions were much improved, the plant was turning out a cloudy effluent visible in the vicinity of the point of discharge. Steps are just being taken toward improving the purification although such improvement was ordered prior to May 1st, 1909, and in spite of the fact that oysters are taken from the Shrewsbury river about a mile down stream.

RIDGEWOOD .- The sewage disposal plant at Ridgewood has undergone considerable alteration within the past two years, and further improvements are now being made.

At present, sewage flows first to a septic tank, 35 feet by 25 feet, but as this tank is filled with solids, practically raw sewage flows to the contact beds. As no proper provision for draining this tank was made, it will be abandoned as soon as the improvements now under construction are completed.

The improvements consist of two sludge separation tanks and a sludge disposal area. The first tank is 32 feet by 11 feet in plan, with a submerged downward flow wooden screen, which is expected to remove the lighter sludge. The sewage is to pass through pipes near the bottom of this tank to the second upward flow basin, which is 32 feet by 23 feet. The effluent is skimmed at the surface by three sets of four channel beams, and can be taken through the old septic tank or direct to the contact filters. The tanks are nearly completed.

The sludge in the submerged screen and in both tanks is to be removed daily, or more frequently, through blow-out valves to a sludge bank. Here it is to be drained and removed weekly to a sludge bed where it will be covered with loam, if necessary, to avoid odors.

Two of the four contact beds are 60 feet by 120 feet, and the other two are 52 feet by 120 feet, and all are filled with about 30 inches of coke and The filling and emptying are controlled by an automatic Aerlock Formerly this apparatus gave a great deal of trouble, but it was recently overhauled and has run for over three months without needing any attention. The beds are ridged and the hollows are heavily grown up with water-cress, tomatoes, &c.

Below the primary beds are four concrete basins with sloping floors, each 50 feet by 60 feet. These were formerly used as "wave beds;" at present however, all the stone has been removed except several ridges running across These ridges have been planted with water-cress, which has the basins. grown luxuriantly, and most of the primary effluent passes through the stone and water-cress before being discharged.

Inspections were made on December 10th, 1910, and on February 23d and March 22d, 1911, the automatic control being found out of commission in each case. Later inspections, however, on July 31st and September 19th, 1911, showed conditions much improved. The effluent has in all cases been clear but putrescible, decolorizing methylene blue in one to two days.

RIVERSIDE.—The Riverside sewage disposal plant has been described in the State Board of Health Report for 1910, p. 368.

Inspections have been made on June 27th, July 1st, July 19th, September 1st and October 5th, 1911. The plant was found in fairly good condition and well taken care of, but it is heavily overloaded. The flow was roughly estimated at 275,000 gallons per day, representing a rate of over a million gallons per acre per day on both the contact beds and the sand beds. The effluent, however, has been non-putrescible whenever sampled.

ROEBLING.—The screen chamber, sedimentation tanks, dosing chamber, contact beds and sand beds at Roebling, have been described in the State Board of Health Report for 1910, p. 368.

Inspections were made on December 19th, 1910, on February 14th, April 1st, June 27th. July 15th, September 11th and October 23d, 1911. The plant was found in fairly good condition and turning out a non-putrescible effluent on all but one occasion. The sludge bed, however, is unsatisfactory, being dug in clay, so that instead of draining, it fills up and overflows directly into the river.

SEA GIRT.—The Sea Girt septic tank was described in the State Board of Health Report for 1910, p. 369.

Inspections were made on July 3d and August 28th, 1911. It was found that the permanent outfall, consisting of 650 feet of 8-inch pipe had never been placed, although the pipe was lying on the beach. In the meantime, sewage is being discharged on the beach at about half-tide level.

SEA GIRT.—State Camp. The septic tank of the State Camp, at Sea Girt, is described in the State Board of Health Report for 1910, p. 369.

Inspections were made on July 3d and August 23d, 1911. It was found that the gates connecting the well into which the ejectors discharge with the septic tanks had never been opened, so that sewage had to get into the tanks by overflowing the dividing wall just below the wooden cover of the well. In this way, some sewage had escaped to the top of the tanks, leaving there a deposit of fecal matter and paper. The gates opening into the tanks were removed, and overflows were thus prevented.

SKILLMAN.—New Jersey State Village for Epileptics. Construction has begun on a new disposal plant for the New Jersey State Village for Epileptics, at Skillman, consisting of a septic tank, stone contact beds and sand filters. On inspection made on October 23d, 1911, it was found that the excavations for the tank and beds were nearly completed, and the forms for concrete nearly ready to be put in place. A full description will be given on the completion of the plant.

SMITH'S LANDING.—Atlantic County Asylum for Insane. The hypochlorite disinfection plant treating the sewage of the Atlantic County Asylum for Insane, at Smith's Landing, was put in operation in May, 1911. It consists of a wooden tank 4 feet 6 inches by 3 feet 6 inches, by 2 feet 6 inches, in which the solution is mixed; and an underground retention tank 15 feet by 7 feet and 6 feet deep, at the entrance of which the bleach is added by a pipe coming directly from the lower part of the mixing tank.

Inspections were made on September 19th and October 20th, 1911. The turning up of the hypochlorite pipe above the sludge level, and the installation of a small constant-head dosing tank has been recommended.

SMITHVILLE.—A hotel and several houses are all the buildings connected with the sewage disposal plant at Smithville, which consists of three circular tanks, each about 8 feet in diameter and 7 to 8 feet deep, and 6 to 10 lines of absorption tiles radiating from each tank. The tanks and absorption lines

are changed weekly, and no sewage appears at the surface. Inspection was made on October 26th, 1911.

SPRING LAKE.—The three septic tanks at Spring Lake, located at the foot of Pennsylvania avenue; at the foot of Brighton avenue, and at the foot of Pitney avenue, Como, respectively, have been described in the State Board of Health Report for 1909, p. 246.

These tanks were inspected on December 21st, 22d and December 23d, 1910, and ordered cleaned out. Reinspection on March 15th, 1911, showed that this recommendation had not yet been carried out; but inspection on June 30th, 1911, showed them thoroughly cleaned and in good condition.

STONE HARBOR.—The hypochlorite disinfection plant at Stone Harbor has been described in the State Board of Health Report for 1909, p. 247. It was found on July 12th, 1911, that no hypochlorite had been used since the summer season began. It was reported, also, that no bleach is ever used in the winter as only a very few houses supply sewage throughout the year.

Later inspections on September 9th and September 13th, 1911, showed that the hypochlorite was being used, but that the mixing tanks were leaky and that no pains were taken to protect the hypochlorite from air and moisture.

THREE BRIDGES.—Lehigh Valley Railroad Creamery. The sedimentation and lime treatment plant for treating the creamery wastes of the Lehigh Valley Railroad Company, at Three Bridges, and the conditions found on inspection, are exactly similar to those at the company's creamery at Clinton, heretofore described.

TRENTON.—DeLaval Steam Turbine Company. The sewage discharged by the lavatories and closets at the plant of the DeLaval Steam Turbine Company, in Trenton, is treated by a system comprising three cesspools, a dosing tank and a coke and stone strainer bed. On inspection made on September 27th, 1911, it was found that the bed was being by-passed, and the tank effluent going directly into the stream. Reinspection on October 13th, 1911, showed that the use of the filter had been resumed.

TRENTON.—I. O. O. F. Home. The sand filters of the I. O. O. F. Home, at Trenton, have been described in the State Board of Health Report for 1909, p. 247.

It was inspected on September 27th, 1911, and the distribution on the beds found very poor. Trouble has been experienced also with the automatic device for starting and stopping the electric pumps, so that they are now controlled by hand. The pumping capacity is not sufficient in times of heavy rain and, at such times, hand pumps are necessary to prevent the sewage from backing into the house.

TRENTON.—Pennsylvania Railroad Shops. The septic tank receiving the sewage of the Pennsylvania Railroad Shops, at Trenton, consists of three concrete chambers, 8 feet by 40 feet and 6 feet 6 inches deep to the flow line. It was inspected on October 10th, 1911, and appeared to be effecting satisfactory removal of solids.

VENTROR.—Two hypochlorite disinfection plants have been installed to treat the sewage of Ventnor. These are located at the Ventnor Water Works, and at the foot of Little Rock avenue, respectively.

At the Ventnor Water Works plant, the sewage passes through a screen chamber containing an iron bar screen with a clear opening of one and one-quarter inches, and set at an angle of about 45 degrees. Above this chamber are the chemical mixing tank 5 feet by 6 feet and 6 feet deep, and the

chemical dosing tank 3 feet by 6 feet and 2 feet deep. The flow from this dosing tank can be regulated by a hand valve.

The disinfecting solution is added to the sewage just after it passes the screen and before it enters the disinfection tank, 8 feet 6 inches by 8 feet 7 inches, which was designed to give a storage with the present flow of about two hours.

From the disinfection well the sewage passes to an ejector chamber, where it is pumped continuously into the Thoroughfare by a Priestman ejector operated by compressed air.

The whole plant is neatly housed and all masonry is of re-inforced concrete. The Little Rock avenue plant is similar, but there are no ejectors. There is a storage tank in which the sewage is stored during the high tide, the gates of which are operated by pistons driven by hydraulic pressure.

These plants were inspected on July 11th, September 8th, September 19th and October 29th, 1911, and were found to be in good condition, except that the tidal apparatus at the Little Rock avenue plant was not working, and the tide backed into the plant at every flood tide. At the time of the heavy rains around September 1st, 1911, this caused the tanks to fill up and overflow through the manholes, washing out the road and causing a local nuisance for a time.

On a basis of the estimated summer flow, the amount of hypochlorite used amounts to 2.5 to 5 parts per million, instead of 10 parts, as originally proposed.

VERONA.—Newark City Home for Truant Boys. The sub-surface absorption system for the disposal of the sewage of the Newark City Home for Truant Boys, at Verona, has been described in the State Board of Health Report for 1909, p 240.

It was inspected on September 18th, 1911, and found in extremely bad condition. The settling chamber was practically filled with solids, and the screen was broken from its fastenings and resting on the scum.

The absorption lines are not alternated, but are run continuously. The ground in which they are laid is low and damp, so that it is thoroughly saturated with sewage.

At the lower end of the field, the effluent is collected in a ditch, which was filled with black muck and gray growths and overgrown with weeds. A sample of the flow in this ditch decolorized methylene blue almost instantaneously. The stream into which this ditch drains was discolored for some distance below the point of discharge.

VINELAND.—The municipal sewage disposal plant at Vineland, comprising settling basins, sand filters and hypochlorite disinfection apparatus, has been described in the State Board of Health Report for 1909, p. 247.

This plant was inspected on January 27th, July 13th, September 14th and on October 10th, 1911. It was found that several beds were badly clogged, that sewage passed through them very slowly. These clogged beds exhibit the phenomenon of a layer of black sand, 6 to 8 inches thick, and apparently almost completely impervious at the bottom of the beds.

The hypochlorite dosing pipe frequently becomes stopped as it leaves the mixing tank at the bottom below the sludge level. Turning up the end of this pipe, and installing a small dosing tank would be a material help.

VINELAND.—New Jersey Training School for Feeble-Minded Girls and Boys. The sewage of the New Jersey Training School for Feeble-Minded Girls and Boys, located at Vineland, is treated by a plant consisting of a concrete septic tank and three sand beds. These latter have no underdrainage.

This plant was inspected on September 14th, 1911, and it was found that the beds had become so clogged by improper operation that all were constantly flooded. It has been proposed that these beds be abandoned, and that the sewage be disposed of by broad irrigation on a large tract of land upon which corn and alfalfa are grown.

WASHINGTON.—Washington is a town of about 3,600 inhabitants, situated in the hills of Warren county, on the Shabbecong creek. Thus far, 207 permits for house connections have been issued, and about 200 have been made.

The plant consists of a grit chamber, 6 feet by 27 feet by 7 feet, and a concrete septic tank divided into two chambers, each 48 feet by 13 feet and 7 feet deep to the flow line. From the tank sewage flows to a regulator house in and around which the automatic apparatus for operating the contact beds is This apparatus consists of a tipping frame and buckets for dosing the beds alternately, and floats and levers for discharging the beds. similar to the one in use at Morristown.

The contact beds are four in number, each 43 feet square, and filled with 6 feet of broken stone. The dose is applied by means of a 12-inch tile pipe laid with open joints, and the effluent collected in tile underdrains.

Each contact filter discharges its effluent on to one of the four sand filters. Each of the latter is 94 feet by 44 feet, and filled with 3 feet of sand on 6 inches of gravel.

This plant was inspected on May 1st, June 10th, July 15th, July 28th and on September 30th, 1911. On June 10th, the automatic apparatus for controlling the contact beds was out of order, but at other times the plant was found in good condition. The effluent, however, was putrescible when sampled both on July 28th and September 30th.

WATER WITCH.—See State Board of Health Report for 1909, p. 247.

WENONAH.—The two sewage disposal plants at Wenonah, located near Mantua avenue, and near the corner of Monroe and Princeton avenues, respectively, have been described in the State Board of Health Report for 1909, p. 247. These were inspected on September 13th, 1911. It was found at the Mantua avenue plant that the septic tank was filled with solids; that the coke had been removed from the strainer, and that both beds were clogged, so that sewage was not passing through the sand but was overflowing directly to the creek. The Monroe and Princeton avenues plant had been entirely abandoned and the sewage by-passed directly to a pond draining into Mantua creek.

WESTFIELD.—The Westfield sewage disposal plant, consisting of a screen chamber, sand beds and irrigation beds, has been described in the State Board of Health Report for 1909, p. 248.

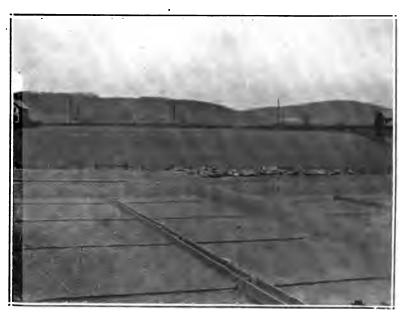
This plant was inspected on January 10th, April 12th, August 1st, August 17th and on September 7th, 1911, and the beds were found at all occasions heavily overloaded and clogged. The dikes around the irrigation field are not high enough to impound all the sewage that is put upon it, and during the heavy rains last spring, raw sewage overflowed directly into the brook.

Plans are being made to build additional sand beds, which are badly needed. WOODBURY.—At Woodbury, the sewage is supposed to be stored during high tide in a concrete tank 80 feet by 80 feet, about 6 feet deep, and divided into two equal chambers. At the beginning of ebb tide, it is supposed to be dis-

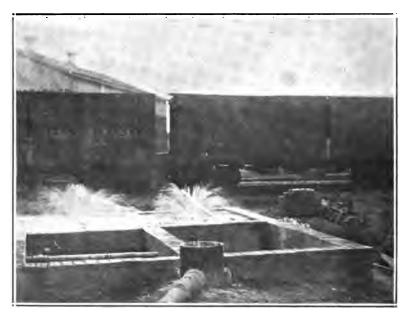
On inspection on September 13th, 1911, it was found, however, that the tank is discharged only once a day at high tide, and the discharge gate is closed as soon as the tank is emptied. The tank then fills in 6 to 8 hours, and



WASHINGTON: Septic Tank and Contact Beds.



WASHINGTON: Sand Beds



WOODSTOWN: Plant for Supplee Alderney Dairy.



WOODSTOWN: New Sand Bed for Town Plant.

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during the balance of the 24, discharges continuously by overflowing to the creek.

The tank should be emptied twice a day at high tide, and should be allowed to run during part of the ebb tide, so as to reserve sufficient capacity for the flood-tide flow.

Woodstown.—The septic tank and sand filters at Woodstown have been described in the State Board of Health Report for 1909, p. 249.

Inspections of this plant were made on December 23d, 1910, and on March 20th, May 23d, July 13th, July 26th, September 13th and on October 19th, 1911.

It was found that the scum removed from the tank the last time it was cleaned, had been piled around the tank and never removed. The tank was nearly filled again with solids at the last inspection, and needed cleaning badly.

The septic tank has no provision for draining and cleaning. A drain pipe and a sludge pipe and more care in handling the sludge, would be a great improvement.

The filter beds were found in good condition and turning out a clear, non-putrescible effluent.

Woodstown.—The Supplee Alderney Dairy. As a result of inspection visits on April 4th, May 23d and June 2d, 1911, and in accordance with the advice of the Board, the Supplee Alderney Dairy constructed a disposal plant to take care of the waste from their creamery at Woodstown. An inspection on July 26th, 1911, showed the plant to be completed and in operation.

The plant consists of two sedimentation tanks and two small coke filters. Soda is used in the wash water, and lime is added just before it reaches the sedimentation tank; this throws down a heavy precipitate and the clear liquid is pumped to the filter. The tanks are used alternately, each being sufficiently large to hold a day's flow.

The sediment that collects in the tanks is removed every two or three weeks,

An inspection on October 19th, 1911, showed the plant to be in good condition, and preventing nuisance in the stream below.

WORTENDYKE.—Granite Linen Mills. The sand beds upon which the sewage of the Granite Linen Mills, at Wortendyke, is treated have been described in the State Board of Health Report for 1910, p. 366.

Inspections on July 5th and September 20th, 1911, showed that the distribution was poor, and that solid matter passed readily to the surface of the beds. A tank for settling out such material would be an improvement.

Notwithstanding these defects, the plant appears able to handle the sewage as the flow is small, and much of the time the sewage is practically all clean water from washing machines.

TABULAR SUMMARY OF THE PRINCIPAL SEWAGE DISPOSAL PLANTS IN THE STATE OF NEW JERSEY.

PLACE. Aldene Allenburst Asbury Park. Asyla Atlantic City (part) Atlantic City (part) Ayon	SERVICE. Pactory Municipality Municipality Municipality Municipality Municipality Municipality		APPROX. COST. \$4,000.00 27,272.77	COST. COST. G. K. Hooper. \$4,000.00 G. E. Hill. 27,272.77 G. E. Hill. J. J. Albertson. F. Herbert Snow. 1. J. A. Benlen.
2222 2222	Belmar Municipality Bordentown Municipality Bradley Beach Municipality Bridgeton I Municipality Brown's Mills Municipality Brown's Mills Municipality Burlington Municipality Burlington Frison	Septic tank, primary and secondary contact, sand filtration. Septic tank, bisherction Disinfection Disinfection Septic tank and ground seepage Pump well, settling tank, land filtration Septic tank, sprinkling filters sand filtration Septic tank, tile absorption.	\$3.50.70 \$3.86.70 \$3.550.00 \$3.550.00	\$3,806.70 W. W. Young. \$5,394.00 Clyde Potts. \$3,550.00 Clyde Potts. Nat. Gas & Construction Co.
52555	Municipality Factory Municipalities Creamery Municipality	Septic tank, intermittent sand filtration Septic tank, intermittent sand filtration Septic tank, sand filtration Chemical precipitation Septic tank, primary contact		\$3,145.00 Wise & Watson. F. E. Danlels. 58,696.00 Hering & Fuller—Clyde Potts. 3,600.00 G. E. Hill.
Mun Mun Gold	Greamery Municipality Municipality Golf club. Municipality	Chemical precipitation Septic tank, ground seepage. Septic tank Settling tank, flush tank, sand filtration Septic tank		E. E. Throckmorton. Nart Rogers. P. F. Van Buskirk.
22222	Municipality Municipality Municipality Municipality	Septic tank Imboff tank Septic tank, primary contact, sand filtration Screens, flush tank, land filtration Screens, flush tank, land filtration	wi	4,650.00 Wise & Watson. 2,288.00 (Tyde Ports. 6,000.00 Pugh & Hubbard. 5,875.00 Waring, Chapman & Farquhar. 7,452.50 Waring, Chapman & Farquhar.
#5555	Sanatorium Municipality Municipality Store and residence. Municipality	Septic tank, sprinkling filters, cinder filtration Septic tank, sprinkling filters, sand filtration Septic tank, coke strainers, flush tank and sand filtration. Septic tank, sand filtration.		\$8,185.66 (Tharles McMillan. Alexander Potter. G. F. Hill. 3,700,00 (G. F. Hill.

* The plants marked with an asterisk are in process of construction and the cost is estimated.

TABULAR SUMMARY OF THE PRINCIPAL SEWAGE DISPOSAL PLANTS IN THE STATE OF NEW JERSEY-Continued.

PLACE.	SERVICE.	SYSTEM.	APPROX. COST.	ENGINEER. •
Island HeightsJamesburg Keyport Lakeburst Lakewood	ights. Municipality State Home for Boys, Municipality Hotel and cottages. Municipality	Sand filtration. Flush tank, land filtration. Subinfection filtration. Subtic tank, sand filtration.	\$5,800.00	\$5,800.00 ('lyde Potts. Boyd McLean. Alexander Potter.
Lawrenceville Lorh Arbour. Long Branch Madison Mahwah	School Municipality Municipality Residence, stable Factory	Septic tank, broad irrigation Septic tank Series Series Septic tank, sand filtration Septic tank, sand filtration	\$2,950.00 1,009.00 1,200.00 { to 1,400.00	\$2,950.00 G. E. Hill. 1,009.00 Waring, Chapman & Farquhar. 1,200.00 Waring, Chapman & Farquhar. { to 1,400.00 quhar.
Manasquan	Municipality Municipality Municipality Municipality Factory	Septic tank Two disinfection plants Feptic tank, sand filtration Septic tank, primary contact, sand filtration Sand filters	\$4,810.00 Pugh & H E. B. Phel 19,500.00 G. E. Hill.	\$4,810.00 Pugh & Hubbard. E. B. Phelps. 19,500.00 G. E. Hill. Hering & Fuller.
Millylile Montague Moorestown Morris Plains	Municipality Creamery Kunicipality Aunicipality Asylum Municipality	Septic tank, aeration well, primary contact, disinfection. Chemical precipitation Septic tank, primary contact 2. Serens, septic tank, sand beds Septic tank, primary and secondary contact, sand filtration.	\$26,577.00 100,000.00	\$26,577.00 Wm. H. Boardman. Alexander Potter. Charles McMillan. 100,000.00 Willlams, Proctor & Potts.
Mullica Hill. Neabanic New Lisbon I New Lisbon II New Lisbon II	Municipality Creamery Almshouse Asylum Municipality	Bedimentation and sand filtration. Chemical precipitation Septic tank, till a absorption. Septic tank, primary contact Septic tank, primary contact	\$20,000.00	Farl Thompson. Farl Thompson. Farl Thompson. Farl Thompson.
Newton II *Ocean City Ocean Grove Overbrook Pemberton	Municipality Municipality Municipality Asylum Municipality	Septic tank, sand beds. Screens, sedimentation, disinfection. Two septic tanks to the septic tanks septic tanks contact, sand filtration. Settling pool, broad irrigation.	\$10,000.00 20,400.00 86,273.00	\$10,000.00 Williams, Proctor & Potts. 20,400.00 Williams, Proctor & Potts. 86,273.00 James Owen.
Plainfield Municipality Pleasantville Hotel Point Pleasant Municipality Princeton II Municipality Princeton II Municipality		Septic tank, primary and secondary contact beds. Septic tank, primary contact bed Septic tank, sand filtration. Broad irrigation	\$3,800.00	\$3,800.00 Pugh 6. Osgood. \$3,800.00 Pugh & Hubbard. W. A. McKenzie.

The plants marked with an asterisk are in process of construction and the cost is estimated.

TABULAR SUMMARY OF THE PRINCIPAL SEWAGE DISPOSAL PLANTS IN THE STATE OF NEW JERSEY-Continued.

PLACE.	SERVICE.	SYSTEM.	APPROX. COST.	ENGINEER.
Princeton III. Mulguaryyllie Cre Raiston Chi Rabway Sta Rabway Mu	Princeton III Creamery Creamery Raiston Criditers Figure Recommend Raiston State Reformatory. Red Bank Municipality	Broad Irrigation Septic tank, secondary treatment to be installed Distriction Grit chamber, septic tank		Albright & Mebus. Edward Howell. E. B. Phelps. T. H. Grant.
Ridgewood	Municipality Municipality Municipality Municipality State Camp	Septic tank, primary contact. Septic tank, primary contact, sand filtration. Septic tank, primary contact, sand filtration. Septic tank,	\$20,687.77 26,398.00 2,800.00 5,475.00	\$20,687.77 G. E. HIII. 26,398.00 Wm. H. Boardman. 2,800.00 Pugh & Hubbard. 5,475.00 James Owen.
Smith's Landing Smith's Landing Smith Wille *South River	State Institution Asylum Municipality Municipality Municipality	Septic tank, contact beds, land filtration. Septic tank, disinfection. Septic tank, the absorption. Three septic tanks and filtration.	\$3,922.00	\$3,922.00 Clyde Potts. W. W. Young. 9,810.00 Pugh & Hubbard.
Stone Harbor Trenton II Trenton III Trenton III.	Municipality Factory P. R. R. Shops. I. O. O. F. Home	Disinfection Sepile tank, flush tank, coke strainer bed Sepile tanks Sepile tanks Sepile tanks Sepile tanks, sand filtration. Chemical precipitation	\$600.00 E. B. Bact. 2,800.00 Clyde	E. B. Phelps. Bact. Sewage Purification Co. Bact. Sewage Purification Co.
Ventnor Verona Vineland Vineland Vineland Vineland Vineland Vineland	funicipality funicipality funicipality hildren's Home funicipality	Two disinfection plants. Sub-surface irrigation Settling basin, sand filtration. Septic tank, sand filtration. Septic tank, primary contact, sand filtration.	\$18,000.00	R. B. Phelps. Alexander Potter.
Wender Witch. Wennah II. Westleid Woodbury	funicipality funicipality funicipality funicipality funicipality	Septic tank, sand beds. Septic tank, sand beds. Septic tand, Septic tand, Detention, Udal tank,	\$1,500.00 Bact. Wm. Wm. Willa	Bact. Sewage Purification Co. Wm. C. Cattell. Wm. E. Cattell.
Woodstown	Municipality	ity Septic tank, sand beds Chemical precipitation, cluder ditration.	\$2,722.00 G.	6. в. ниі.

Official Actions.

The following is a brief summary of the actions taken by the Board relative to matters pertaining to water-supplies:

ALLENTOWN.—An inspector of this Division visited Allentown, on May 16th, 1911, and reported upon the filtration plant of that borough as follows:

"The floor covering the clear water basin is of wood and is in very poor condition. It is getting into the filtered water. This entire floor should be replaced either with one of concrete or a double board floor, preferably the first, and should be brought up flush with the filter tank, thus doing away with the open space immediately around the filter.

"No coagulant is being added to the water. Alum should be applied in order to aid the work of the filter.

"In regard to the filter itself, it was found that the attendant had not been properly informed as to the proper method of washing and cleaning the filter. The system was thoroughly explained to him and the filter thoroughly washed."

Upon receipt of this report, the mayor and the council of Allentown were ordered by this Board to correct the defects enumerated.

An inspection of the plant made on September 6th, 1911, revealed the fact that the floor covering the filtered water had not been repaired. The filter was being washed properly and a small amount of alum was being delivered directly onto the filter. It was recommended that a suitable alum dosing device be installed, together with apparatus for the application of soda-ash when necessary. It was further recommended that an effort be made to abate the numerous dangerous pollutions on the stream from which the water is taken. As an alternative to the abatement of these pollutions, it was suggested that water of a better sanitary quality might be obtained from springs located a short distance from the plant.

A letter was forwarded to the mayor and council, calling attention to the conditions reported, and embodying the recommendations mentioned above. A reply was received from the mayor on October 3d, in which it was stated that steps had been taken to put the filtration plant in proper operating condition, and assurance was given that every effort would be made to abate all pollutions above the intake.

ASBURY PARK ESTATES.—On August 5th, 1911, Mr. Edward Gottheimer, of New York, applied to this Board for permission to supply water to the residents of Asbury Park Estates, Ocean township, Monmouth county, New Jersey. An inspection of the source and distributing system was made and reported upon as follows:

"The water is derived from a spring issuing from a hillside, and as there is no habitation within a considerable distance, any pollution of the source is unlikely. "From the spring the water flows directly into a basin about 30 feet by 40 feet, dug into the hillside, has a natural sand bottom, while the sides are turfed. This

reservoir is uncovered, and, being located near the foot of a hill, it would receive surface wash at times of rain.

"From this reservoir the water runs into a 3-inch iron pipe and is pumped by a gasoline engine up to a 1,000-gallon cedar storage tank situated on a hilltop. This tank is used to maintain pressure, and the water is distributed from the tank to the houses.

"Inspection indicated that the system, as installed, is but a temperary affair; the pipe-lines are in some instances laid over the surface of the ground; the pumping engine is installed in a shed roofed over, but open on all sides, and the same line of pipe which conveys the water from the pump to the storage tank, also distributes it to the consumer."

At a meeting of the Board held August 22d, 1911, permission to supply this water to the residents of Asbury Park Estates, was refused.

BEBNARDSVILLE.—Somerset Spring Water Company. On August 22d, 1911, the application of the Somerset Spring Water Company for permission to supply water for potable purposes from a spring located on the property of Mr. S. S. Swaim, in Bernards township, was granted subject to the usual conditions of maintenance.

BOONTON.—United Water Supply Company. Application was made by the United Water Supply Company, of Boonton, for permission to supplement their present supply with water from the so-called "Richard's Spring," situated in the northeasterly portion of Boonton.

An inspection was made of this spring, and on May 9th, 1911, the Board refused to approve this source of supply.

On petition of the Water Company, a hearing was held on June 6th, 1911. Supplementary inspections of the spring and its surroundings were made and, on June 27th, 1911, this Board confirmed its former action in refusing to grant permission to the company to furnish water for potable purposes from "Richard's Spring," on the ground that the water-shed of the spring was not controlled by the company and, therefore, the water of the spring could not be protected from possible contamination.

Brant Beach.—Beach Haven Realty Company. On June 13th, 1911, permission was granted the Beach Haven Realty Company, of Philadelphia, Pa., to furnish water for potable purposes from an artesian well recently finished by said company, at Brant Beach. Long Beach township, Ocean county, N. J., subject to the usual conditions and to the submission of plans of a system for distribution of the water.

BRIDGEPORT.—Bridgeport Water Company. On August 8th, 1911, permission was given to the Bridgeport Water Company to supply water to consumers in the village of Bridgeport, subject to such conditions of operation and purification as this Board may from time to time require and to the submission of plans of the distributing system.

The water is obtained from four drilled wells varying in depth from 43 feet to 80 feet.

BRIDGETON.—Plans for a new water-supply for the city of Bridgeton were approved on January 31st, 1911, and construction was begun in September, 1911. The supply is to be taken from Tumbling Dam pond, and subjected to filtration in six rapid sand gravity filters; sulphate of aluminum being added as coagulant.

Pending the completion of this plant, the present water-supply is being disinfected with chloride of lime, about 0.4 parts available chlorine being added to 1,000,000 parts of water.

CROSSWICKS.—Crosswicks Water Company. Plans for a water-supply to furnish water to the residents of Crosswicks, were submitted by the Crosswicks Water Company to the Board, which plans were approved on June 6th, 1911.

The company derives its supply from springs. A connection with Doctor's creek, shown on the plans submitted, was ordered to be removed.

ELMER.—Elmer Water Company. Plans for a water-supply system were submitted by the Elmer Water Company, of Elmer, in April, 1911. These plans were approved on May 9th, 1911, subject to the usual conditions of construction, maintenance and operation.

Water is derived from a drilled well, 65 feet deep. This source was approved on August 22d, 1911.

EWING TOWNSHIP.—Mr. George J. Rittman. Permission to sell water from a spring on the property of Mr. Lewis Keeler was denied Mr. George J. Rittman, of Trenton, because of the fact that analysis indicated the water to be unfit for potable purposes.

HADDONFIELD.—On May 20th, 1911, the borough of Haddonfield requested permission to add to their supply, a spring located near their pumping station. Analysis of the water and inspection of the surroundings indicated that the water was of good sanitary quality and the likelihood of pollution remote, and permission to use this source of supply was therefore granted them June 6th, 1911.

A concrete basin has been constructed about the spring, the bottom being filled to a depth of one foot with crushed stone. This basin is tightly covered. The water from the spring flows through a cast-iron pipe to the suction well.

HIGH BRIDGE.—On December 13th, 1910, permission was granted the borough of High Bridge to connect the borough mains with the new source of water-supply.

HOHOKUS.—Plans for a water distribution system for the borough of Hohokus were approved on December 28th, 1910, subject to the usual conditions of construction and maintenance and with the proviso that hydrants or blow-off cocks be placed on all dead ends. Water is furnished to the borough by the Bergen Aqueduct Company.

HOHOKUS.—Mr. Albert Winter. Application having been made for permission to furnish water for potable purposes to the residents of the township of Hohokus, by Mr. Albert Winter, of Mahwah, an inspection of the source of such water was made.

The water is taken from a spring which has its rise beneath the right-of-way of the main line of the Erie railroad, about three-quarters of a mile south of the Mahwah station. The water from this spring issues from the westerly embankment of the Erie railroad through a terra-cotta pipe. Owing to the location of the spring, no inspection of its actual source could be made, but as there were no houses within one-half mile to the westerly of the right-of-way, and all drainage from them being in a northerly direction, it is safe to assume that the source is not liable to pollution, for on the easterly side of the right-of-way, the ground rises abruptly to a height of some 40 to 50 feet and there are no habitations or cultivated areas within a considerable distance. The possibility of pollution by filtration through the road-bed is very remote.

The analysis of samples from this spring indicated that the water was of good quality.

On May 16th, 1911, permission was granted Mr. Winter to supply water from this source to the residents of Hohokus township, permission being subject to such conditions of distribution as this Board may from time to time require and subject to submission of plans of a collecting and distributing system.

HOPEWELL.—Mr. John G. Burton. Application having been made for permission to market a bottled water in this State, by Mr. John G. Burton, of Hopewell, an inspection of the proposed source was made on September 28th, 1911.

The water is taken from a driven well, 113 feet deep by 6 inches in diameter, located near a stair factory owned by Mr. Burton, at Hopewell. The well is cased to a depth of 105 feet and is driven through rock for the last 8 feet of its depth. The water is to be labeled "Artois Table Water."

Samples of the water having been submitted for analysis, and results obtained, indicating the water to be of satisfactory sanitary quality, the Board, on October 10th, 1911, granted permission to Mr. Burton to bottle water from this well; his plant being subject to such conditions of construction, operation and maintenance as the Board may from time to time require.

Kenilworth.—The borough of Kenilworth having applied for permission to purchase water from the New Orange Park Water, Heat, Light and Power Company, an inspection of the source of supply of said company was made on October 6th, 1911.

The supply is derived from a drilled well, 275 feet deep by 8 inches in diameter, located in the borough of Kenilworth, and within a few feet of the plant of the New Orange Park Water, Heat, Light and Power Company. The well is driven through rock for the greater part of its depth and is cased down to the rock.

From the well, the water is lifted by air to a covered cement reservoir, 12 feet by 12 feet by 20 feet, situated beneath the power house. From this reservoir, the water is pumped to a standpipe of 141,000 gallons capacity and flows by gravity to the consumers. At present, the company has about 25 house connections. The company has a single pump of 300,000 gallons capacity.

The New Orange Park Water, Heat, Light and Power Company will not extend its mains, but merely propose to furnish water to the borough of Kenilworth at fixed meter charge, the borough to lay all mains and furnish all other necessary equipment.

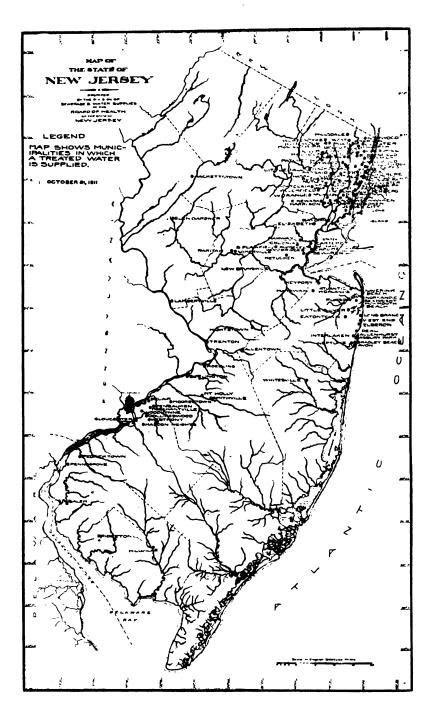
On October 10th, 1911, the borough was granted permission to furnish water supplied from a drilled well by the New Orange Park Water, Heat, Light and Power Company, to consumers in Kenilworth for potable purposes, with the understanding that the borough authorities submit to the Board for approval a plan of the water piping system to be used in the borough.

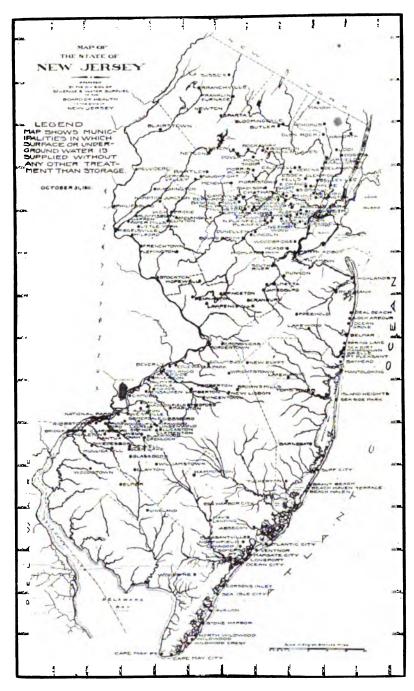
On October 24th, 1911, plans for a distributing system of water pipes in the borough were approved subject to the usual conditions of construction and maintenance and subject to the placing of hydrants on all dead ends of pipes.

Kirkwoon.—Lakeside Park Land Company. The application of the Lakeside Park Land Company for permission to furnish water from an artesian well was granted, subject to the usual conditions of construction and maintenance, and subject to the submission of plans of the distributing system.

MILFORD.—On November 29th, 1910, plans for water-supply and distributing systems for the town of Milford were approved, subject to such conditions of construction and operation as the Board may from time to time require.

MORRIS PLAINS.—On October 9th, 1911, a report was received of a very complete and extended investigation of the conditions of the water-supply for





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the New Jersey State Hospital, at Morris Plains. This report covered all of the existing conditions and made numerous recommendations for immediate improvements.

MOUNTAIN LAKES.—Hillcrest Water Company. On July 25th, 1911, plans of the water-supply system of the Hillcrest Water Company were approved subject to the usual conditions of construction and maintenance.

Water is obtained from a drilled well 340 feet deep.

New Brunswick.—During the spring of 1911, a plant was installed for the disinfection of the New Brunswick water-supply by chloride of lime.

This hypochlorite plant consists of two barrels in which the hypochlorite is mixed. From these the liquid is drawn off into three other barrels and they are filled with water to the top, making a weaker solution. From these barrels, the solution feeds to a half-barrel, which is used as a regulating chamber, the liquid being kept under a constant head by means of a float. About 40 pounds of hypochlorite are used per day, or about 0.4 parts available chlorine per 1,000,000 gallons.

SEWELL.—Sewell Water Company. On August 22d, 1911, the application of the Sewell Water Company for permission to furnish water for potable purposes from an artesian well, at Sewell, to consumers in said village, was approved subject to the usual conditions of construction and maintenance.

SOUTH BOUND BROOK.—Bound Brook Water Company. Plans for an extension of the water mains of the Bound Brook Water Company into the borough of South Bound Brook, were approved on March 7th, 1911.

SOUTH PLAINFIELD.—Middlesex Water Company. Inspection of the filter of the Middlesex Water Company, at South Plainfield, showed that it was not in proper working condition. The company was notified and during the month of July, the filter was thoroughly overhauled and put in good shape.

Spring Lake.—On March 14th, 1911, plans for a water-supply system for the borough were approved, subject to the usual conditions of maintenance and construction, provided that detailed plans of the collecting reservoir were submitted to this Board, and that the sewer pipe leading from the works be connected with the borough sewer system.

TRENTON.—On July 11th, 1911, plans for a water disinfection plant were approved, with the understanding that this was only a temporary expedient for the purification of the water to be used until a water filtrs-ton plant was installed by the city.

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Report on the Water Purification Plants in Operation in New Jersey, October 31st, 1911.

H. P. LETTON, C.E., Field Assistant.

Mr. F. E. Daniels, Chief, Division of Sewerage and Water Supplies, Board of Health of the State of New Jersey, Trenton, New Jersey:

DEAR SIR—I beg to submit the following brief report on twenty-three of the rapid sand filtration plants in the State of New Jersey. The data for this report was obtained on personal inspections made during September and October, 1911.

The majority of the plants are in good shape and are well managed, laboratories for bacteriological work being maintained in five cases. There are a few plants, however, which are in disreputable condition. This is due, in most cases, to inefficient and incapable men being in charge of the plant and to the lack of any supervision on the part of either the municipal or company officials.

Seven of the plants described are for the purpose of removing iron from ground water, and they are in every case very efficient.

Of the plants filtering surface water, five use calcium hypochlorite in connection with the filters. Its use has been found to be economical by causing a saving in the necessary amount of alum to reduce the bacterial count. This is clearly shown in the table accompanying the description of the filters at Little Falls.

Considering the generally unscientific management of most of the plants, it would be well from a sanitary viewpoint, at least, to use hypochlorite in connection with every plant filtering a polluted water.

ALLENTOWN.—This is a borough supply established in 1896. The supply is obtained from a pond or reservoir which is fed by several springs, and, in time of rains, by surface water. The pond has an area of perhaps 10 acres, and is quite full of pond lilies, grass and other water plants. The supply has every chance of pollution as the drainage from a number of houses and barns and outhouses flows directly into the water not far from the intake.

From the reservoir, the water flows by gravity to a rapid sand filter, 9 feet in diameter, and equipped with mechanical rakes or agitators. The filter is washed once daily with filtered water. It is judged that the average daily consumption is about 12,000 gallons. As the filter is only run about four hours daily, the rate of filtration is approximately 50,000,000 gallons per acre per day.

356 REPORT OF STATE BOARD OF HEALTH.

A small amount of alum is used and run directly into the filter, but the amount is not determined exactly, and it is not always used. The engineer stated that they were planning on adding an extra tank so that soda-ash could be added when the alkalinity was low.

From the filter the water runs to a filtered water cistern beneath the filter. There is a crack about 2 inches wide between the filter and the floor where dirt can get into the filtered water.

There has been considerable trouble at times on account of microscopic organisms which were not removed by the filter.

Analyses of the raw and filtered water show that in some cases the filtered water is worse chemically than the raw water. It may be that the filtered water reservoir needs cleaning.

To put this plant in good order either a settling basin should be constructed or the rate of filtering should be greatly reduced and an efficient alum dosing box arranged.

In regard to the pollution of the water, practically all the drainage from the houses, &c., could be eliminated by building a dike to divert this water and empty it into the ravine below the plant.

This supply is in a dangerous condition as it is evident that the filter is not efficient and that there is always the possibility of dangerous pollution.

Since the above was written, the borough authorities have taken steps toward complying with the recommendations for putting the plant in proper shape.

ASBURY PARK.—There are two plants here, one owned by the City of Asbury Park, and one by the East Jersey Coast Water Company.

The municipal supply was established in 1885, and the filters are used for removing iron.

The supply is obtained from seven artesian wells, from 4 to 10 inches in diameter, and from 600 to 1,100 feet depth. The water is pumped by the air lift process to an open concrete reservoir about 45 feet square and 11 feet deep. The air causes the iron in the water to precipitate as an oxide and this gives the water a deep red color.

From the reservoir the water is pumped through two pressure filters. These filters each consist of two units, each unit being about 25 feet long and 6 feet in diameter. The first contains sand as a filtering material and the second, charred bone. Each unit of each filter is washed once daily, the washing of a complete filter requiring from 25,000 to 40,000 gallons. The washing is done by a reverse current of filtered water and a current of compressed air being applied simultaneously.

The average daily consumption is 600,000 gallons.

This plant is in good shape and produces a safe and potable water.

The East Jersey Coast Water Company's plant is located about four miles west of Asbury Park, on the New York road,

The supply is obtained from Jumping brook, which is impounded into a small reservior. Much trouble has been had with grass and other aquatic plants in the reservoir, but a good attempt is made to keep them out.

From the reservoir the water flows by gravity to an open, rectangular, wooden coagulating tank, 48 feet long, 24 feet wide and 5 feet deep. Before the water enters this tank there is added to it soda-ash and aluminum sulphate, each in the proportion of about one and one-quarter grains per gallon. The soda-ash is added before the alum. The coagulating tank is so baffled that the water flows the length of the tank four times and the coagulation is perfect. This tank is cleaned every three months, about a foot of sediment being removed each time.

From the coagulating tank the water flows by gravity to an open settling basin with paved earthen slopes. At the water surface the length is about 175 feet, the width 100 feet and the depth 8 feet. This basin is cleaned twice every year, about one foot of sediment being removed each time.

From the settling basin the water flows by gravity to a suction well 8 feet in diameter and 12 feet in depth. A flowing artesian well also empties in to this well.

The water is pumped from the suction well through two pressure filters, each having a rated capacity of 500,000 gallons per day. The filters are washed once per day, the average amount of wash water being 33,000 gallons for each filter. This is almost 10 per cent. of the average daily consumption, which is 700,000 gallons.

A laboratory is maintained and the following tests are made:

Total count on agar at 20° C. on raw, settled and filtered water, twice per week. Lactose bile presumptive tests for B. coli every other day on raw, settled and filtered water, using 1 c.c. Tests are also made for color and alkalinity. The following average figures show the excellent results being obtained and especial attention is called to the effect of coagulation.

•		B. coli		
T	otal count	percentage		
	at 20°.	of $+$ tubes.	Color.	Alkalinity.
Raw water	95	50	40	0
Settled water	15			8
Filtered water	2	0	0	10

The increase in alkalinity of the filtered water over the settled is due to the artesian well water which has a high alkalinity.

The plant is well managed and is obtaining the best results, without the use of bleach, of any plant in the State.

ATLANTIC HIGHLANDS.—This is a municipal plant, established in 1892, for removing iron from the water.

The supply is obtained from eight wells, from 110 feet to 450 feet in depth. The water is pumped by the air lift process into a collecting well. From here it is pumped through two pressure filters, each with a rated capacity of 250,000 gallons per day. The filters are washed every other day.

The average daily consumption is about 150,000 gallons.

This plant is producing a safe and potable water.

BURLINGTON.—This is a municipal plant established in 1804.

The supply is derived from the Delaware river and is pumped with centrifugal pumps to a baffled coagulating basin. This basin is built of concrete, being 47 feet long, 33 feet wide and 11.5 feet deep, with a storage capacity of 210,000 gallons. As the water enters here, it is dosed with sulphate of alumina in quantities from one-quarter to three-quarters of a grain per gallon, and with calcium hypochlorite in the proportion of about 0.4 parts available chlorine per 1,000,000 gallons.

From the coagulating basin the water flows by gravity to four rapid sand filters, each 14 feet 9 inches by 18 feet 3 inches, and having an area of 269.2 square feet. Each filter has a rated capacity of 750,000 gallons per 24 hours. The filters are washed once per day with filtered water, the sand being first agitated with compressed air.

From the filters the water enters a concrete basin having a capacity of about 200,000 gallons, from which it is pumped into the distribution system.

The average daily consumption is about \$50,000 gallons.

A laboratory is maintained in which chemical tests are made. is kept in good shape and is well managed.

GLOUCESTER.—The plant is municipally owned and was constructed in 1883. As originally designed, the supply was obtained from artesian wells but, as the consumption increased, some water was taken from Newton creek, which flows near the station. At the present time most of the wells are out of commission and the larger portion of the supply is obtained from the creek.

The filtration plant consists of two settling or coagulating basins, which are wooden tanks 22 feet in diameter and 12.5 feet high, with a total capacity of about 71,300 gallons. It was planned to dose the entering water with sulphate of alumina and this was done until recently. At the present time the mixing tanks are out of commission and a small amount of alum is added directly to the water entering the filters.

The filters consist of four circular wooden tanks 15 feet in diameter. filters are operated at a rate of 120,000,000 gallons per acre per day. filter is washed about every six hours with filtered water, during which time the sand is agitated with a revolving rake. Although the beds had been washed just before the inspection the sand was full of muddy matter.

From the filters the water flows into an open concrete lined reservoir of, perhaps, 500,000 gallons capacity. From here it is pumped into the distribution system.

At times water is pumped into the settling basins faster than it is taken away by the filters and the overflow is turned into the filtered water reservoir.

Analyses of the water show that B. coli is always present and this is to be expected since the creek is polluted with sewage.

The plant should be put in working order by replacing the alum tanks with new ones and by using a sufficient amount of alum to get proper sedimenta-tion; very little is obtained at present. Considering the polluted source, it would be well if a hypochlorite plant was also added.

Since the above was written, the borough authorities have taken steps to remedy conditions.

HIGHTSTOWN.—This is a municipal supply established in 1885.

The supply is obtained from four artesian wells, 6 inches in diameter and 206 feet deep. This water contains considerable iron, and it is necessary to remove this by filtering.

The water is pumped to a wooden tank where a small amount of lime is added, after which it is aërated by falling through a screen. From here part of the water enters the filter directly and part flows over another screen on to the surface of the filter.

The filter is a rectangular wooden tank about 6 feet by 12 feet, and is washed by an upward flow of filtered water. The filter is washed ence per day. The average daily consumption is about 150,000 gallons.

The filter is very efficient, samples of the filtered water showing no iron.

KEYPORT.—This is a municipal plant established in 1892.

The supply is obtained from six 4-inch wells, 240 feet deep. daily consumption is about 250,000 gallons.

Water is pumped to a wooden settling basin having a capacity of 20,000 gallons. As the water enters the basin it is dosed with lime in the proportion of about four grains per gallon, and is aërated with compressed air. The settling tank is cleaned every three months.



LITTLE FALLS: One Filter Gallery.



LITTLE FALLS: Hypochlorite Dosing Apparatus.

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From the settling basin the water flows by gravity to two rapid sand filters 12 feet in diameter. These filters are of the Warren type and are washed every eight hours, the sand being agitated mechanically. About 10 per cent. of the total water filtered is used for washing.

This plant is very efficient in removing iron, and analyses show that the

water is a safe and potable one.

LITTLE FALLS.—The plant here, owned by the Montclair Water Company, and constructed in 1902, is the largest in the State. It was fully described, together with its method of operation, by Mr. George W. Fuller, in the Proceedings of the American Society of Civil Engineers, of February, 1903, but a brief description is given below.

The plant is located on the north bank of the Passaic river just below the falls. The supply is obtained from the river above the falls, and delivered to the plant through a canal and a 66-inch steel pipe.

The inlet pipe discharges into a circular concrete tank where the water is treated with sulphate of alumina in quantities necessary to reduce the color below 10. Thorough mixing is obtained by means of the natural agitation of the water and it then passes to the congulating basin. This basin is built of concrete and has a capacity of about 1.750,000 gallons. Every two months the accumulated sediment, amounting to about 2,000 tons, is cleaned out by pumping it into the river.

From the coagulating basin the water flows by gravity to 32 rapid sand filters. The filters are built of concrete, rectangular in shape, being 24 feet long and 15 feet wide, with a filtering surface area of 360 square feet. The normal rate of operation of each bed is 1,000,000 gallons per day. The rate of filtration is governed by Weston Controllers. The filters are operated by hydraulic cylinders. On each table is a loss of head gauge and the filter is washed when this loss is 9.0 feet. In washing, the sand is first agitated by air being forced through the strainer system for three minutes, followed by a current of filtered water for six minutes. The air is furnished by Sturtevant blowers and the wash water by special pumps. All the machinery is electrically driven.

Beneath the filters is located the clear water well.

As the water leaves the clear water well, it is dosed with calcium hypochlorite in the proportion of about 0.2 parts available chlorine per 1,000,000 gallons.

Every eight hours, tests are made on raw, coagulated, filtered and delivered water for turbidity, color and bacteria at 20° C., and on raw and delivered water for alkalinity, and the alum and hypochlorite solutions are tested for strength. Presumptive B. coli tests in dextrose broth are made once per day on river, filtered and delivered water. Complete chemical analyses are made once per month. Once per week, microscopical analyses are made on water in all reservoirs.

This plant besides being the largest in the State is also the best managed, being run on strictly scientific principles. The following table gives the yearly results since the plant has been in operation:

,		FIL. V	LS. PER	ater.	SULPHAT ALUMI			PAB	TS PER	MILL	ION.	= _	BACTE PER (
	ţ	DA	·Y.	ah W			ALI	KL.	TURBI	DITY.	COL	OR.		
YEAR.	Average Period (Service.	Total.	Net.	Per Cent. of Wash	Lbs. per Day.	Gr. per Gallon.	Raw.	Filtered.	Raw.	Filtered.	Raw.	Filtered.	Raw.	Filtered.
1902-3	9.55		/ 12.4	3.5	2,330	1.28	28 29	19	11	1	85	6		
1903-4 1904-5	10.55 10.89		16.7 22.4	2.8 2.6		1.26 1.28	29	21 24	18 12	0	34	6 5	2,600 1,500	55 50
1905-6	10.59		21.4	8.2		1.49	88 27	16		Ň	90	4	2,500	
1906-7	9.29	24.5	23.6	8.8	4,340	1.24	80	22		ŏ	25	3	2,000	65
1907-8	10.23	24.7	23.8	3.6	4,940	1.41	80 24	14	9 9	0	85 84 29 32 25 31 28	3 3	1,800	35
1908-9	10.88		28.4	8.5	4,980	1.44	82 82	22 21	9	0	28	3		48
1909-10	10.41		26.0	8.7		2.05	82					5 8		100
1910-11	11.37	28.0	27.3	8.9	4,530	1.12	_81	24	11	0	45	8	4,450	16

Bleach has only been used during the past year and its result can be clearly seen from the above table.

Mr. F. W. Green is the superintendent in charge of pumping and filtration.

Long Branch.—There are two plants supplying Long Branch and the
neighboring communities, and both are owned by the Tintern Manor Water
Company. One is located in West End and one near Red Bank.

The first supply is obtained from Whale Pond brook, which is dammed to form a small reservoir.

The water flows by gravity to a suction well, where, in times of high turbidity, some alum is added. From the suction well the water is pumped to ten pressure rapid sand filters, of which eight are vertical, having a rated capacity of 500,000 gallons per day each, and two are horizontal, having a rated capacity of 250,000 gallons per day each. Before entering the filters, the water is dosed with sulphate of alumina, by means of a shunt feed apparatus, in the proportion of from one-quarter to one grain per gallon, the average amount being three-quarters of a grain. The filters are washed normally every twelve hours with a reverse current of filtered water.

The average daily consumption for this plant is about 3,000,000 gallons.

The second supply is obtained by damming the waters of Hop brook and Yellow brook a short distance below their confluence. A portion of this reservoir near the dam is made into a settling basin by means of a tight timber wall, and as the water enters this it is dosed with a small amount of sulphate of alumina, thus reducing the turbidity to a considerable extent. The water from here enters a 36-inch cast-iron pipe and flows by gravity to the filter plant, which is located about a mile west of Red Bank.

As the water enters the filter-house, it is dosed with sulphate of alumida in quantities varying from 0.4 to 2.0 grains per gallon, averaging about one grain per gallon. The water is then raised by centrifugal pumps to twelve rapid sand filters. Each filter is 17 feet in diameter, being built of wood and of the sectional wash type, having a rated capacity of 1,000,000 gallons. The filters are washed from three to four times daily with filtered water.

Beneath the filters is located the filtered water basin, which is built of concrete and is 6 feet in depth. The capacity of this must be about 300,000 gallons. There is no tight cover over this basin, and it is possible for dirt to get in; however, the filter building is in good shape, and the platforms are kept clean, so it is not probable that there would enter any polluting mattter.

The average daily consumption from this plant is about 9,500,000 gallons. During the winter months, the West End plant is sufficient to supply the demand.

Both plants seem to be in fair condition and the company is undoubtedly making an effort to supply a pure and wholesome water to its consumers.

MERCHANTVILLE.—The plant is owned by the Merchantville Water Company and was established in 1886. It is located east of Pensauken and near the creek of the same name.

The supply is obtained from seven wells from 120 to 210 feet in depth. The water is pumped to an aërating tower, which consists of a series of seven screens covered with coke and arranged one above another. From here, the water flows by gravity to a covered settling tank of 80,000 gallons capacity.

From the settling tank it is pumped through three rapid sand filters of the pressure type, each having a rated capacity of 500,000 gallons. These filters remove practically all the iron, which has been precipitated by the aëration. The filters are washed on an average of every two days; the time of washing is about ten minutes.

The average daily consumption is about 1,000,000 gallons.

This plant is well managed and produces a water of the highest quality, free from any possible danger of pollution.

MILLVILLE.—There are two water companies here, one supplying a well water, and the other a surface water.

People's Water Company.—This supply is obtained from six artesian wells 112 feet deep. The water contains iron which it is necessary to remove.

From the wells, the water flows by gravity to a collecting or suction well 12 feet in diameter and 38 feet in depth. Compressed air is forced through the water in the well to precipitate the iron.

From the suction well, the water is pumped through a rapid sand filter of the horizontal pressure type. The filter is washed with a reverse current of filtered water every other day.

The average daily consumption is 700,000 gallons.

The plant is well kept up and the water is free from any danger of pollution.

Millville Water Company.—This company obtains its supply from Union lake. The water has a very high color from some cedar swamps above. It is also polluted by the surface wash from numerous privies and barns.

The water flows to a rectangular settling basin and from there to four rapid sand filters 15 feet in diameter. Alum is added to the water as it enters the settling basin in the proportion of one-eighth of a grain per gallon. At the time of inspection, the alum pumps were out of order and were not being used.

In washing the filters, a reverse current of water only is used. A water motor for furnishing power for the agitators is in place, but is not used. The filters are operated at a rate of about 60,000,000 gallons per acre per day.

During the past summer, on account of low water and at the time of the inspection, some unfiltered water was pumped to the mains, due to trouble with the pumps.

At the present time, the filters are removing very little color. New sand has been added to two of the units and it is planned to change the others also.

The engineer of the plant has no thorough understanding of the principles underlying the process of mechanical filters and for this reason, the plant is in very bad shape.

Since the above was written, the company has taken steps toward having the plant put into proper shape. MOORESTOWN.—This plant is owned by the Moorestown Water Company, and was established in 1887. The plant is situated about a mile west of West Moorestown. The supply is obtained from Pensauken creek and from a small reservoir fed by springs.

The water flows from the creek or pond to a collecting well and is pumped from here to settling tanks having a capacity of 75,000 gallons. Alum in the proportion of 0.28 grains per gallon, and soda-ash in the proportion of 0.20 grains per gallon are added to the water in the collecting well. The settling tanks are cleaned about twice a month, although very little sediment collects.

From the settling basins, the water flows to two rapid sand filters about 15 feet in diameter. The filters are operated at a rate of about 105,000,000 gallons per acre per day, and are washed once daily with filtered water, while the sand is being agitated by mechanical rakes. From the filters, the water enters a filtered water basin built of concrete beneath the floor of the filter house.

Analyses of the water show that B. coli is generally present, although no source of pollution is evident. This is probably due to the fact that the right proportions of alum and soda-ash are not being added and that they are not added at the correct place. They should be added to the suction line from the collecting well to the settling basins. There has been complaint that the alum is causing the pipes to corrode and this is probably due to incorrect dosing.

The plant is well kept up and should be capable of giving much better results than it does.

MOUNT HOLLY.—This is a private supply owned by the Mount Holly Water Company and established in 1845. The supply is obtained from Rancocas creek, which is a stream highly colored and sewage polluted.

The water flows by gravity from the creek through a screen chamber into a collecting basin or suction well. Here sulphate of alumina is added in quantities varying from 0.6 to 1 grain per gallon. The alum is mixed in two wooden tubs and flows through a regulating box to the well.

From the suction well, the water is pumped to two cylindrical wooden tanks 24 feet in diameter and 20 feet deep, with a capacity of 135,000 gallons. These tanks are cleaned every month, there being about a foot of sediment collecting in that time.

The water flows from the top of the settling tanks by gravity to three rapid sand filters. The filters are all 15 feet in diameter, and two of them are of the New York Sectional Wash type, while the other is a Roberts. The filters are washed on an average of once per day with filtered water.

From the filters, the water enters a filtered water basin beneath the floor, having a capacity of 43,000 gallons.

The water is pumped from the filtered water basin to two reservoirs located on a hill some distance above the town. These reservoirs have a storage capacity of about 1,400.000 gallons, and are cleaned every May and November.

Tanks for dosing the water with calcium hypochlorite are in place, but they have never been used.

The average daily consumption for 1910 was 362,000 gallons.

This plant is very well managed and the filters are quite efficient. Although B. coli is always present in the creek water, it has only been found once in the filtered water during the past year. A good purification is also shown by the chemical analyses.

New Milford.—This is a private system owned by the Hackensack Water Company and established in 1882. It is next to the largest plant in the State, supplying about 45 towns and cities. The supply is taken from the Hackensack river, the average daily consumption being about 23,000,000 gallons.

The water is pumped to a concrete sedimentation basin, where it is dosed with alum to the extent of about 1.3 grains per gallon, after which it has a two-hour period of sedimentation. After leaving the sedimentation basin, the water is treated with calcium hypochlorite in the proportion of from six to nine peunds per 1,000,000 gallons, or from 0.25 to 0.36 parts available chlorine per 1,000,000 gallons, and then is pumped to eight rapid sand filters of the gravity air wash type. These filters are 27 feet by 56 feet in plan, and have a filtering area of about 1,000 square feet. The normal capacity of each filter is 3,000,000 gallons per day, but it can be subjected to an overload of 33 per cent. without seriously injuring the efficiency.

The filters are washed every eight hours, regardless of loss of head. In washing, the sand is first agitated by air for three minutes, and then a current of filtered water is forced through the strainer until the waste water is clean. The water used for washing is from $2\frac{1}{2}$ to 3 per cent. of the total water filtered.

After filtering, the water enters a clear water basin having a capacity of 1,000,000 gallons, and from here it is pumped into the distribution system.

This plant is exceptionally well managed. A complete chemical and bacteriological laboratory is maintained, and the following tests are made: Total counts at 20° C. every eight hours on filtered and unfiltered water. Lactose bile B. coli presumptive tests once daily on unfiltered, sedimentated and filtered water, using a 5 c.c. portion. Once a week, samples are taken from the district offices and from the reservoirs at various points on the distribution system, and the same tests are made on these. Every two weeks, complete chemical and bacteriological analyses are made on the filtered and unfiltered waters. Once per menth, complete analyses are made by the Lederle Laboratories, of New York City.

The results obtained by the plant are excellent. While about 50 per cent. of the samples of unfiltered water show the presence of B. coli in 5 c.c., it is not found in the filtered and treated water. The total count in the filtered and treated water will not average over 15 c.c. for the whole year.

PENNSGROVE.—The Pennsgrove Water Supply Company, established in 1905, takes its supply from four driven wells, about 165 feet in depth. The water contains a large amount of iron and to remove this, mechanical treatment is in use. The water is pumped up through a 6-inch pipe and discharges on to two screens covered with coke, the screens being placed one above the other so that the flow is broken up and the water is well aërated. From here, it flows into a concrete basin and is retained for eight hours, during which time a large proportion of the iron settles out. From the sedimentation basin, the water flows by gravity to a circular sand filter, 13 feet in diameter, where any unprecipitated iron is removed. The filtered water reservoir of concrete is located just beneath the filter.

Provision has been made for adding alum, but we are informed by the company that this additional treatment is unnecessary in producing a clear effluent.

RAHWAY.—There are two plants located here, one municipally owned, which supplies Rahway, and one owned by the Middlesex Water Company, which supplies a number of towns in the vicinity.

Municipal plant.—The supply is obtained from the Rahway river. The water flows by gravity from the river through a series of five screens into a suction well. From here it is pumped to a steel standpipe, entering about 25 feet above the bottom. Alum is added in the suction line in the proportion of 0.25 to 2.0 grains per gallon. The sediment accumulating in the standpipe amounts to about 9,000 gallons every two days, when it is flushed out.

Water is tal

Water is taken from the standpipe at a point 40 feet above the bottom and flows to eight horizontal rapid sand pressure filters, each 8 feet by 25 feet, and with a capacity of 500,000 gallons. The filters are washed once per day, using about 160,000 gallons, which is 6 per cent. of all water filtered. The water for washing is obtained from a concrete reservoir having a capacity of 185,000 gallons, which is filled with filtered water during the night. The pressure for washing is obtained by pumping the water with a centrifugal pump driven by a steam turbine.

In times of high turbidity in the river water, calcium hypochlorite is added in the proportion of 1.7 parts available chlorine per 1,000,000 gallons.

The operation of the filter is under the control of Professor E. B. Phelps, of New York City, and the superintendent of the plant, Mr. D. V. Gage, makes daily bacteriological tests of the water before and after filtration.

This is one of the few plants in the State which is scientifically managed, and its value is clearly shown by the efficiency of the filters, B. coli being found very rarely in the efficient.

Middlesex Water Company.—The plant is situated on the Robinson Branch of the Rahway river, which feeds the reservoir from which the supply is obtained. This reservoir has a capacity of about 260.000.000 gallons.

The water flows by gravity to a suction well where it is dosed with alum in the proportion of about 1.5 grains per gallon.

From the suction well it is forced through 12 rapid sand pressure filters, each 8 feet by 20 feet in plan; and having a rated capacity of 500,000 gallons per day. The filters are washed from once in 24 hours to once in 36 hours, using from 10 to 12 per cent. of the filtered water for washing.

The average daily consumption is 4,000,000 gallons.

A laboratory is maintained for miscroscopical analyses, as there has been considerable trouble at times from organisms in the reservoir. Asterionella has caused the most trouble and has been removed by using copper sulphate in the reservoir. A laboratory for doing bacteriological work is being equipped.

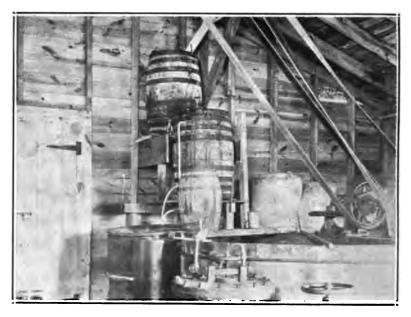
This plant is very well managed and produces safe water.

RARITAN.—This is a private plant owned by the Somerville Water Company and established in 1881. The supply is obtained from the Raritan river, the water being pumped to a standpipe having a capacity of about 300,000 gallons. Before the water enters the standpipe, it is dosed with sulphate of alumina in the proportion of about one grain per gallon. The method by which the amount is regulated is not a scientific one, the filter attendant simply guessing at the amount according to the turbidity of the raw water. The accumulated sediment in the standpipe is flushed out weekly.

The water flows from the standpipe, at a point 80 feet above the bottom, to seven rapid sand filters of the pressure type. Four of these filters are known as the Hyatt Filter. These are the only ones of this kind in the State, and are of a very old type. In washing, all the sand is ejected from the filter by means of a water jet, and is then allowed to run back by gravity. It takes about one-half hour to wash each filter. Each of these filters has a rated capacity of 1,000,000 gallons per day. The remaining three filters are of the ordinary horizontal type, each having a rated capacity of 500,000 gallons per day. All of the filters are washed on an average of once per day.

The average daily consumption is 1,000,000 gallons per day.

The plant seems to be fairly well managed and to give results better than would be expected, considering the manner in which the alum dosing is regulated. Some more scientific method should be adopted in order to put the plant in first-class shape.



SKILLMAN: Emergency Hypochlorite Plant.





NEW BRUNSWICK: Emergency Hypochlorite Plant.

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ROEBLING.—The plant, which was constructed in 1905, is owned by the John A. Roebling's Sons Company, and is located in one of the mill buildings of this company.

Water is pumped from the Delaware river to a standpipe, and from there it flows by gravity to the coagulating basin.

The settling basin has a capacity of 35,400 gallons. The water entering this basin is treated with sulphate of alumina in the proportion of 1.1 grains per gallon, which is the maximum amount that can be used without overcoming the alkalinity in the raw water. An attempt has also been made to treat the incoming water with calcium hypochlorite, but on account of the difficulty of regulating the small amount needed, its use has been practically discontinued.

From the coagulating basin, the settled water flows by gravity to the filters. The filters are almost square in plan, each has an area of 66.7 square feet, or a total filtering area of 200 square feet. They are filtering about 130,000 gallons per 24 hours, or at a rate of 29,000,000 gallons per acre per day, which is a very low rate for this type of filter. The filters are washed about every six hours, and this is done by forcing filtered water upward through the bottom strainers, and, at the same time, forcing compressed air up through the sand from a separate set of pipes placed just above the strainers.

Some years ago there was a typhoid fever epidemic in Roebling, and the water-supply was suspected. Soon after this, a Forbes Sterilizer was purchased and a small amount of the filtered water is now sterilized and delivered in a tank wagon to the inhabitants, and a large amount is put in large bottles and cooled for drinking in the mills.

About 60 per cent. of the population use the plain filtered water for drinking. A sample of the filtered water was taken and tested for B. coli. This showed it to be present in 0.1 c.c. and from previous samples B. coli is found to be present in quantities ranging from 0.1 to 10.0 c.c. From this it is evident that the filter is not efficient in removing bacteria, although all color and turbidity are removed.

To put this plant in a safe condition, the hypochlorite plant should be remodeled and the bleach should be used continuously. It is possible that better results would occur if the bleach was added as the water leaves the settling basin instead of as it enters.

This plant is capable of giving much better results than have been obtained, and steps should be taken to have it properly managed.

SKILLMAN.—This plant is owned by the State and supplies water for the New Jersey State Village for Epileptics.

The supply is obtained from a small brook which has been impounded into a reservoir. Water is pumped from the reservoir to three large wooden settling tanks, each holding 25,000 gallons. As the water enters the tank, it is dosed with aluminum sulphate in the proportion of 1.5 grains per gallon by means of an alum feed pump, which works in synchronism with the raw water pump.

From the settling tanks, the water flows by gravity to a rapid sand filter, 8 feet in diameter, and with a rated capacity of 144,000 gallons per day. The filter is washed once daily with filtered water, the sand being agitated mechanically during the process.

From the filters, the water enters a concrete clear water basin, having a capacity of 54,800 gallons, and from here is pumped into the distribution system.

SMITHVILLE.—The plant is owned by the H. B. Smith Machine Company, and is located in the mill-yard of the company. The supply is obtained from

two wells 6 inches in diameter and 110 feet deep. This water is high in iron, which it is necessary to remove before using.

The water is pumped from the wells to an iron tank holding about 2,500 gallons. As the water enters this tank, it is broken up into a number of fine streams and is well acrated.

From the aërating tank the water flows by gravity to a Greer rapid sand filter about 6 feet in diameter. This filter is washed once daily by a reverse stream of filtered water.

From the filter, the water is pumped to an elevated tank and from there flows into the distribution system.

The average daily consumption is about 20,000 gallons.

This plant is a small one, and while located in rather a cramped and dirty place, it seems to turn out a water that is free from any pollution and that is quite potable.

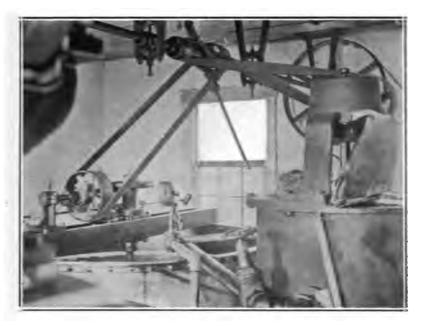
SOUTH PLAINFIELD.—This plant is owned by the Middlesex Water Company and was established in 1896. The supply is obtained from 13 wells, 250 feet deep and from a large pond.

The average daily consumption is about 1,250,000 gallons.

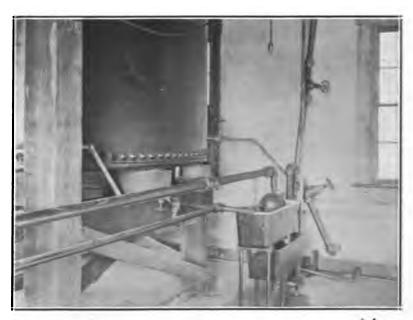
During the summer months, it is necessary to use about 250,000 gallons per day of the pond water. This is filtered through a rapid sand filter, 13 feet in diameter, and of the sectional wash type. The water before being filtered is dosed with sulphate of alumina in the proportion of 2.5 grains per gallon. After filtering, the water flows to the suction line from the wells and is mixed with the well water.

At the time of the inspection, no filtered water was being used, but it was . used during the summer, and analyses showed B. coli to be always present.

A hypochlorite plant should be installed to augment the work of the filter.



TRENTON: Hypochlorite Plant-Solution Apparatus.



TRENTON: Hypochlorite Plant—Dosing Apparatus.

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	- -		''- i			-						:	Z	NITROGEN		- 8V		
TOWN.	н	DATE.		PRO	PROPRIETOR.	SOURC	三	SOURCE OF SAMPLE.	Color.	Odor, Cold.	Odor, Hot.	Turbidity.	Free Ammenia.	Albaminold.	Vitrites.	Nitrates.	Chlorine.	B. Coll.
Burlington County— Bordentown West Hampton Rvesham Township	Mar. May Aug.	9, 1911. 4, 1911. 12, 1911.	:::	Garret Buckalew Ivins Wright Robert E. Haine	ckalew gbt Haines	Dug well, Dug well, Dug well,	54 5 81	feet deepfeet deep	:::	1-e 2-e	C .	000	.072	8 :8	8100.0	888	8 × 81	80.0 Absent. 8.0 Absent. 123.0 Absent.
Camden County— Delaware	Мау	3, 1911.	ī :	Paul Lippincott	lneott	Dug well,	22	feet deep	6	1-6	-	-	<u> </u>		-014	.014 12 .00	63.0 In	In 0.1 cc.
Essex County— Nutley West Caldwell	Mar. June 2	17, 1911. 20, 1911.	1 ::	Harry Steinauf J. Pier	inauf	Dug well, Dug well,	about 25 fee	about 50 feet deep.	: ن	1 0 p	-0-	0,0	.010	.028	809.	88		80.0 Absent. 7.0 In 10.0 cc.
Mercer County— Jawrence West Windsor	June 2 Apr. 1	22, 1911. 17, 1911.	;;	Willard Atkinson J. W. Pierce	tkinson	Driven wo	۰	60 feet deep	::	1.4	10	-00	.018	<u>4</u> 86	228	36	1	22.5.In 10.0 cc. 27.5 Absent.
Middlesex County— New Brunswick Perth Amboy Woodbridge	Apr. Dec. 2 Dec. 2	12, 1911 29, 1910 29, 1810	:::	Mrs. Jacob John Esrcae Feldman Isaac Flood	Jacob Johnson e Feldman Flood	Dug well, Dug well, Dug well,	822	deep		2 & C	080	000	9. 80. 80.	217 104 080	888	.006 9.20 .086 9.60 .000 24.00	52.0 57.0	62.0 In 10.0 cc. 67.5 In 1.0 cc. 57.0 In 0.1 cc.
Monmouth County-	Apr.	28, 191	1911	Mrs. Phoel	Phoebe Frazee	Dug well,	32	feet deep	0	1-6	1.6	0	910.	.042	000	2.40	22.0	22.0 Absent.
Morris County— Rockaway Pine Brook	Mar. June 2	14, 191 20, 191	1911	T. Poulas E. L. Pen	ılas	Well Dug well			00	00	00	. 0	.030	040	.000	98	0.0	4.0 Absent. 4.5 In 1.0 cc.
Fassaic County— Haledon Preakness Wayne Wayne	Mar. 2 Sept. Mar. 2 Mar. 2	22, 4, 1911. 22, 1911. 22, 1911.	::::	S. Vigleano Jacob and Wolley Brothers	S. Vigleano	Dug well, Driven w. Dug well, Dug well,	0 00	20 feet deep	::::	0000	0:00	. 000	014	050	0003	22.82.83 82.83.80 83 80 80 80 80 80 80 80 80 80 80 80 80 80	33.0 In 70.0 In 52.0 In 09.0 In	33.0 In 1.0 cc. 70.0 In 1.0 cc. 52.0 In 10.0 cc. 69.0 In 10.0 cc.
Somerset County— Bridgewater	Sept.	18, 1911.	l :	George Ho	Hough	Dug well,	Æ	feet deep	e	0	:	0	.002	010	000	2.80	7.0	Absent.
Sussex County— Sussex	July 1	11, 191	1911	Walter W.	Tretsworth	Dug well,	뛺	feet deep	0 :	0	0		.026	.052	000	1.60	4.0	.5 In 0.1 ec.
Union County-	Feb. 1	17, 1911.	 	Albert Wo	Wosmack	Driven well,	8	feet deep	-:	0	0	0	F00	.020	800	4.0	15.5	15.5 Absent.

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CONTINUOUS RECORD OF ANALYSES OF WATER FROM THE SUPPLIES OF CREAMERIES—RESULTS IN PARTS PER MILLION EXCEPT WHERE OTHERWISE STATED.

						-	_	NITROGEN AS	EN A				
TOWN.	DATE.	PROPRIETOR.	SOURCE OF SAMPLE.	Color.	Odor, Cold.	Odor, Hot. Turbidity.	Free Ammonia.	Albumladia.	Nitrites.	Nitrates.	Chlorine.		B. Coll.
Passale County— Halodon Richfield Dec.	Dec. 14, 1910	Abel Bakker John G. Sprattler	### County— Dec. 14, 1910 Abel Bakker Dug well, 40 feet deep Bichdeld	00	1 00	00	000.	.000 .082 .000 7.20 16.0 In 10.0 ec006 .116 .018 13.60 25.5 In 1.0 ec.	900	3.80	16.0	11 11	.0 G.
Salem County— Salem Sharptown Sharptown	Mar. 4, 1011 Apr. 12, 1911 Apr. 12, 1911	John Q. Davis	Sharptown Apr. 12, 1911 John Q. Davis Driven wells, 90 to 110 feet Sharptown Apr. 12, 1911 William Richman Dug well, 16 feet deep Sharptown Apr. 12, 1911 William Richman Driven well, 160 feet deep	600	00	91 0 14 8	0 1-e 80 .008 .020 0 0 140 .024 .024 0 0 .012 .042	92.00 4.00 4.00	6.6.6	<u> </u>	0.00	In 16 Abse Abse	.00 177.0 In 10.0 cc. .00 8.0 Absent. .96 5.0 Absent.

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Report of the Bureau of Vital Statistics.

DAVID S. SOUTH, State Registrar.

The tables found in the report of the Bureau of Vital Statistics for the present year are comparatively the same as in previous years; however, the classification of causes of deaths, it will be noticed, varies from those contained in previous reports, for the reason that this department adopted the international classification of causes of death revised by the international commission appointed for that purpose at the session held in Paris, France, July 1st to 3d, 1909. The sole purpose of the revised classification is to exhibit a list of uniform and comparable titles of diseases or groups of diseases, and it is the intention of the international commission above mentioned to revise the same every ten years.

The tables which follow show an increase in the number of births and deaths, and a decrease in the number of marriages which took place during the past year. The decrease in the number of marriages is explained by the fact that the marriage license law which was recently passed by the Legislature of this State has in a great measure prohibited persons from adjoining States coming to New Jersey and marrying.

MARRIAGES.

Since the marriage license law is the most recent act pertaining to this department, we think a brief resume of the effect of this law, and suggestions for its amendment, would be proper at this time. To all appearances the law is accomplishing the purpose for which it was enacted; however, there are some cities in the State where the marriage ceremony between non-residents is a

common practise, and only recently a case was brought to our attention where the parties interested contended that a justice of the peace married a certain couple some time during the night, and procured a license for the same the following day. Of course officials of this sort defeat the intent of the law, and therefore we have given careful study to certain defects in the act which we would recommend to the Legislature for consideration.

First, there should be some provision made for issuing a duplicate license in cases where the contracting parties desire to have both a civil and religious ceremony performed.

The law should also be more explicit in requiring both of the contracting parties to be present when the license is issued, and that both the said parties shall answer and swear to certain questions.

There should also be some provision for securing a license in case of the absence of the registrar or his deputy, where the license is to be procured, and power should also be given to the registrars and assessors to administer oaths to parties applying for a marriage license, and also to take affidavits of parents and guardians in cases of consent to the marriage of minors.

There should be an amendment requiring the identifying witness to be of legal age.

A penalty should be imposed in cases where registrars issue licenses illegally.

Finally, the most important amendment, and one which we think should be added at the earliest possible moment, is to require a certain time to elapse from the issuing of the license to the time when the marriage ceremony is to be performed. In our opinion this time should be not less than one day or more than three days.

We think with the above changes in the marriage license law the State of New Jersey will finally have solved the problem of runaway marriages.

BIRTHS.

It is gratifying to note an increase in the number of births now reported to this office. We think there is an increase of at least 10 per cent, over the previous year, and that at present

about 85 to 90 per cent. of all the births that take place in New Jersey are reported.

Prompt reporting of births is necessary for the reason that the total number of births in a municipality or State is the basis of that most important ratio known as infant mortality.

In a chart elsewhere in this report it is shown that the deathrate among children under five years of age has been gradually decreasing for the past five years, and the full measure of protection to infant life cannot be extended unless every birth that takes place is promptly reported. We would urge all registrars and assessors to give this attention. If any physician or midwife in their district habitually fails to report births, the registrar should secure the data in reference to the case and present the same to the local board of health with recommendation that prosecution be ordered.

When the present law requiring births to be reported within five days became effective a few physicians made a protest, stating that the time was too short; however, to those who have given this matter special attention the conclusion is reached that the shorter the time which is allowed the better the returns which are made, consequently in 1909 the State Board of Health of New York secured an amendment to the law in that State requiring that all births be reported within thirty-six hours after the birth takes place, and in this respect we would say that in some foreign countries a birth must be reported within twelve to twenty-four hours.

To physicians who object to promptly reporting births we would add that the laws of New Jersey in giving them a license to practise medicine and safeguarding them in practising their profession has a right in return for this unusual protection to lawfully require them to promptly report all births, still-births and deaths occurring in their practise.

DEATHS.

Still further improvement in the registration of deaths in New Jersey will no doubt be accomplished providing the various registration States and cities throughout the country will agree to the presentation of certain uniform tables in regard to mortality

statistics. This important subject was under discussion at the meeting of the American Public Health Association in Havana, Cuba, in December, 1911; however, no data is available at present in reference to the recommendations made at that time.

A noticeable improvement is found in examining certificates of deaths for occupational statistics and it is hoped that with such additional data in regard to mortality by occupations, improved tabulations may be compiled by this department.

In order to bring the Bureau of Vital Statistics thoroughly up to date and have available all data in reference to each death that takes place in New Jersey, a tabulating machine, such as is used in the Bureau of the Census, Washington, D. C., should be made a part of the equipment of this office, and the proper help provided to operate the same. With such a machine at our disposal any number of facts in relation to any disease or combination of diseases in any part of the State would be available at short notice, and additional tables in reference to mortality statistics could be added to the reports of this department, which would greatly enhance the value of the same.

Table 1—Births, Marriages and Deaths by Counties, Cities, Boroughs and Townships for the five years ending December 31, 1910.

ATLANTIC COUNTY.

		В	IRTH	s.			MAI	RHIAG	ES.			DE	ATH	S.	
NAME OF PLACE.		3	EAR	s.			Y	EARS	ş.			1	EARS	١.	
	1906	1907	1908	1909	1910	1906	1907	1908	1909	1910	1906	1907	1908	1909	1910
Abeecon **Atlantic City Ruena Vista Brigantine Egg Harbor City. Egg Harbor Tewnship. Folsom Borough Galloway Hamilton Tewnship Hammonton Linwood	73 0 57 23 0 10 32 111	797 66 1 65 14 5 21 26 113	101	73 0 62 27 5 27 22 152	91 0 56 12 5 20 39 166 14	24 0 20 6 0 8 16 49	22 0 23 12 3 4 14 45 0	18 0 28 6 2 4 10 34	32 0 19 7 3 6 4 59	37 0 27 7 0 4 12 53 6		29 243 26 0 22 23 64 4	43 2 34 22 0 23 23 68	36 23 23 21 16 38 93 10	37 40 22 11 31 7
Longport Berough Margate City Mullica North Field City Pleasantville Port Republic City Somers Point Ventuor Weymouth	2 11 9 65 3 7	0 12 11 83 3 9	14 11 66 4 8	12 9 105 4 7	16 8 86 3 10 4	0 21 2 7	3 0 27 6 2	0 3 1 87 3 4	1 41	46 5 4 2 4	44 2 8	27 47 5	1 14 26 41 3 11 6	3 17 27 57 8 3 10	1 2 8

^{*} Marriage certificates received from County Clerk in which the places where the marriages were performed are not stated.

^{**} The death-rate in summer resorts is calculated on the basis of the resident population, whereas the actual population is often several times larger, and on account of this floating population and the large number of invalids included in it, the death-rate is not a criterion of health conditions.

NOTE.—The marriage license law of 1910 went into effect on July 1st of that year, therefore the figures marked with a * in the following tables refer only to marriages which took place during the first six months of the year in question. Under the marriage license act which was in force prior to July 1st, 1910, non-residents of this state coming to New Jersey and marrying were required to go to the office of the County Clerk and procure a marriage license.

BERGEN COUNTY.

		В	IRTH	8.			MA	RRIAC	es.			DI	HTA	8.	
NAME OF PLACE.		1	FEAR	s.			3	EARS	3.			3	EAR	3.	
	1906	1907	1908	1909	1910	1906	1907	1908	1909	1910	1906	1907	1908	1909	1910
Allendale	9 2	9 6		14	10	٠	6	2	6	3	6	8 7	13		11
Bergenfield	29	33	52	38	51	5	6 11	2 8 8 4	2 17	2 19	18	14	3 21	5 15	2
Bogota	19 74	26 79	19 88	22 96	25 110	26 26	5	4	6 26	7 30	10	21	21 10	18	24
Carlstadt	68	73	80	94	107	11	24 18	42 16	80	45	40 28	. 43 . 23	36 38	. 36	5
Closter Borough	28 16	20 14	18 10	20 13	21 16	7	R	7	10	5	10	11	10	12	2
Delford	21	13	13	17	18	5	2 2	5 1	5 8	8	5 14	10 14	9	7	1
Demarest Borough	5	3	10	5	9	3		1	4	8 2	8	6	10	5	١.
Dumont East Rutherford	30 76	29 71	41 72	35 93	119	21	15	16 21	11 33	8 45	13 46	17 52	11 54	22 45	1: 5
Edgewater	27	41	59	55	57	12	10	44	42	81	21	87	84	21	8
Emerson	19 137	17 166	17 174	19 193	17	59	79	9 79	8 70	8 68	8 141	10 143	126	9 185	15
Englewood City Englewood Cliffs Fairview		2	2	5	3	3	1	.18	1	1	141	125	120	180	10
Fairview	54	56 18	88	113	114	5	2	9	5	7	15	25	18	39	8
Franklin	44 28	18 24	25 31	82	71 35	16	14	38 11	51 12	81 9	45 19	43 23	47 17	53 20	5
arfield	137	165	236	303	874	56	49	46	72	72	76	91	118	140	13
Hen Rock Hackensack City Harrington Park Borough,	12 290	19 843	16 381	322	17 402	152	122	1 152	4 154	15 185	10 193	218	16 170	10 191	22
Harrington Park Borough,	8	5	2	8	7	2		2	8 10	2		8	1/0	191	22
lasbrouck Heights	30	22	24	24	30	10	10	8		15	12	12	20	17	2
Haworth Borough	9 12	6 10		16	7 19	4	8	1 5	8	2 5	8	2 9	6	13	1
Tohokus	R1	54	16	14	16	17	14	17	10	2	48	88	24	25	1
deonia	38	68 68	43	45	40	6	44.	1	1 6	4 8	18 28	3 25	9 16	0 29	
odi Borough	76	61	100	104	126		31	12	27	84	82	44	41	48	8 5
Leonia Little Ferry Lodi Borough Lodi Township Lodi Township Lodi Township	21 19	15 28	14 14	18 21	20	1	1 8	1	1 10	1	5	10	8 10	15	
didland	21	16	25	25	21	5	9	7	18	2	9 37	6 54	51	15 52	6
Midland Park	54	46	54	39	49	9	7.	14	5	14	25	15	20	27	2
Montvale	12	6	11	6	12 15				2	2	5	8	8	7	1
North Arlington	8	••••	i	7	12	2			••••	2	4	8	5	4	
Northvale	15 12	14 16	7 12	7	15	5 2	1	1		2	12	10			1
Norwood Borough Dakland	13	21		6	8		4 2	5	4	8	5 8	8	11	9	
Old Tappan Orvil Township Overpeck	1	3	2	6	6	3			2		3	8	8	4	
Orvil Township	21 50	15 95	15 81	78	103	7 16	10	10 16	8 11	4 21	9 25	8 35	14	10 38	1
Palisade	22	25	83	23	33	7 2	4 2	8	8	6	17	28	44 12	17	ì
Palisade Park	23 84	36	41	45	36			2	8	7	14	15	21	12	1
Ramsey	84	28	21 4	32 18	24 32	4	8	8	6 7	10 8	15	19	20 8	20 27	8
Ridgefield Borough	8	2	22	11	9	5	2	8	6	8	3	9	6	4	1
Ridgefield Township Ridgewood	68	10 55	82	84	81	28	22		2		5	1	4	. 0	ا ا
Riverside	19	12	12	9	15	7		28 4	87 0	84 1	48 6	49 5	46	48	٦
Rivervale Township	8	7	6	. 7	6			1 1	À	1	1	4		8	5
Rutherford	87 6	85 3	87 11	102	100	33 6	39 5	41	43	85 2	62 8	52 4	50 3	53 13	8
Saddle River Borough Saddle River Township	62	48	25	49	60	4	5		2 2	7	48	31	80	22	4
Feaneck	15 42	28 43	21 42	35 52	35 58	6	5	4	18	.8	11 22	10	10	17	1
renany	42	48 63	64	52 86	121	9	8		18	17 83	22 37	23 53	82 56	18 89	3
Toner Seddle River Rom	1	4	3	2	4			[]	2 2	3	i	4	2	0	"
Wallington		1 2	3	1 3	8		***	····i	0	2	• • • • •		• • • •	0 5	
Washington	20	2 31	82	32	37	10	7	17	28	12	5 15	21	18	19	2
Woodcliffe	7	12	9	11	5	****	7 2 4	17 8 4 •9	28 2 1	3	10	7 8	6	11	١ ٠
Wood Ridge	17	35	26	26	29	4	•2	1 4	•2	.5 •1	9	≀ 8	10	18	1

^{*} Marriage certificates received from County Clerk in which the places where the marriages were performed are not stated.

BURLINGTON COUNTY.

		В	RTH	s.			MAI	RIA	IES.			DE	HTA	8.	
NAME OF PLACE.		7	EARS	8,			Y	EARS	š.			Y	EARS	ī.	
	1906	1907	1908	1909	1910	1906	1907	1908	1909	1910	1906	1907	1908	1909	1910
Bass River	7	2	10	10	9	5	3	6	6	5	1	7	9	8	1
Beverly City		46	57	40	51	18	28	26	19	26	59		48	53	5
Severly Township		26	36	35	24	10	16	16	15	9	22	41	23	23	3
ordentown City		65	64	74	66	52	38	42		36	70	63	71	- 55	
Sordentown Township	1	5	6	7	3	.ve.	1.00		1	9	6	9	4	9	12
Burlington City	117	129	127	130	158	56	100	82	74	89	146	155	157	134	15
Surlington Township	2	5	8	9	9		2		1	1	12	15	23	20	1
hester	106	125	81	85	99	39	36	39	43	39	77	68	74	77	1 7
hesterfield	20	11	16	8	13	15	5		1	6	29	9	16	17	1. 7
innaminson	19	12	13	15	24	В	8		1	2	12	14	14	8	1 3
elran		11	21	19	12	3	7	3	3	6	13	16	11	17	1 5
Castampton		6		6	8	. 1	2		0	0	4	2	5	7	
lvesham		27	29	. 34		3			6	6	16	13	19	19	1 0
deldsboro		8	6		7	2				7	8	8	1 11	5	
lorence		94	89	92	84	6	11		12	17	31	43	81	55	. 8
umberton			17		14	5					29			22	1
dansfield		7	15		17	4	4	6		11	16				
Medford					36	10									
fount Laurel			28		25	4			3	3					
New Hanover			12							6					
Northampton						70				54					
North Hanover Township						4									
Palmyra				53						20	30	37	46		
Pemberton Borough				17	15	13	11	18	10			13	14	12	1
Pemberton Township		5	8		5		- 6	2	2	3	46	40	71	62	1 3
Riverside							33	26			48	67	47	38	1 - 1
Riverton Borough			37						16	14	22	20	23	14	
Shamong					4	mi.	6		2	2			10	3	1
outbampton					34	- 8	7	11							1 3
pringfield							4 P								
Cabernacle							1								
Washington	- 0						3		0						
Westampton												1			
Willingboro	9	7					1		1			1 8			
Woodland	111111	12					1	1				1 9		13	

^{*} Marriage certificate received from County Clerk in which the place where the marriage was performed is not stated.

CAMDEN COUNTY.

		В	RTH	8.			MAI	RIAG	es.			DE	ATH	3.	
NAME OF PLACE.		X	EARS	3.			¥	KARS				¥	BARS	ı.	
	1906	1907	1908	1909	1910	1906	1907	1908	1909	1910	1906	1907	1908	1909	1910
Audubon Borough	4	11	22	18		2		5	1	7	8	7	9	5	
Berlin	1000			1000	30	3003				700	::::	1::::	1223	1	17
Centre							2919		2900	17	1303	51			
Chesilhurst			6						ō	12	4	8			
Clementon			40				10	12	11	17	31	32	47		
Collingswood	26							19	21	30		53	43	52	
Delaware								1	0	1	16				1
Gloucester City															
Gloucester Township				87				16		15					
Haddon				14 60				9 30		17	18 31				
Haddon Heights Borough				18				30	13	12	2		11		
Merchantville Borough				24											
Oaklyn Borough								3	l vo						
Pensauken								3	11						
Voorhees	.: 16			15			7		7	5	11	14	16	9	1
Waterford										8		84	40		
Winslow										10	88	38			
Wood Lynne Borough	.¦ €	3 11	11	7	8	2				5	4	8	8	2	1

^{*} Marriage certificates received from County Clerk in which the places where the marriages were performed are not stated.

CAPE MAY COUNTY.

NAME OF PLACE.			RTH					RRIAG					EARS		
	1906	1907	1908	1909	1910	1906	1907	1908	1909	1910	1906	1907	1908	1909	1910
Anglesea Borough Avaloa **Cape May City Cape May Point Dennis Holly Beach Borough Lower Middle North Wildwood Borough, Ocean City Sea Isle City Upper West Cape May Wildwood Wildwood Wildwood Wildwood Crest	1 86 82 24 27 29 35 6 16 10 23	3 87 20 25 16 45 26 3 23 5	1 27 24 45 12 55 85 16 20	1 20 0 28 33 16 53 41 14 20	15 43 28 29 17 48 13 21 19	27 6 7 10 17 15 1 12	30 1 9 10 24 8 5	13 13 16 4 24 13 6 9	13 15 9 23 16 8	12 25 4 15 22 22	22 17 19 37 29 6 21	50 2 2? 177 5 33 28 6 22	32 21 17 7 32 41	20 0 33 29 20 24 6 50 18	21 27 24 42 13 45 14 35
Woodbine	65	80	79	68	78	13	16	•2		8	7	11	7		5

^{*} Marriage certificates received from County Clerk in which the places where the marriages were performed are not stated.

^{**} The death-rate in summer resorts is calculated on the basis of the resident population, whereas the actual population is often several times larger, and on account of this floating population and the large number of invalids included in it, the death-rate is not a criterion of health conditions.

CUMBERLAND COUNTY.

		В	RTH	8.		l	MAI	RRIAG	es.			DE	ATH	8.	
NAME OF PLACE.		3	EAR	3.			Y	EARS	١.			¥	EARS	١.	
	1906	1907	1908	1909	1910	1906	1907	1908	1909	1910	1906	1907	1908	1909	1910
Bridgeton	36	52	42	46	48	17	24	21	16	12	25	289 84 27	180 21	39	32
Deerfield	11 27	30 29	32 37	20 87	89	17 8	12	5	8	14	12 14	19 15	27 18 82	24 12	24 11 20
Greenwich Hopewell Landis Lawrence	91	12 60	17 79	18 68	24 61	15			14 3 8 8	18 6	6 94	27 69	43 81	/ 6 6	48 63
Maurice River Millville City Stow Creek	281	16 291	27	39 289	43	13 108	9	94	15 105	8	12	31	23 187	23 151	28 149
Vineland									101	87	83				150

^{*} Marriage certificates received from County Clerk in which the places where the marriages were performed are not stated.

ESSEX COUNTY.

•		1	BIRT	H8.			MAE	RRIAG	ES.			DE	ATH	3.	
NAME OF PLACE.			YEAR	88.	 		Y	EARS	•			¥	EARS		
	1906	1907	1908	1909	1910	1906	1907	1908	1909	1910	1906	1907	1908	1909	1910
Belleville	146		172	170	245	33	46	46	49	62	117	133	116	190	220
Bloomfield City	211	221	246	259	286	67	84	65	108	137	170	145	158	152	168
'aldwell Borough	26		39	48	36	13	12	9	17	19	32	28	38	28	39
aldwell Township		-4	8	8	10	3	3	6	0	4	.7	10	21	10	- 1
Cedar Grove		490	505	589	600	183	166	145	188	230	269	297	278	822	370
East Orange City Essex Fells	900	290	8	989	000	185	100	140	3	280		1000	218	622	an
len Ridge	35		32	42	46	10	9	11	19	13	26	25	16	24	3
rvington	215		188	179	234	37	38		47	49	101	114		127	14
ivingston			6	21	20	8	6		5		18			5	1
fillburn	59		58	56	69	12	11	12	11	26		36	40	36	3
Iontclair City	369	410	449	450	456	140	133	156	156	157	261	291	235	277	32
Newark City	7829	8105	8613	8739	10023	3382	3660	3475	4108	4148	5547	5736	5198	5516	578
North Caldwell Borough	3		2	1	4	65.00	1171	1	0	2	6	3	4	4	1.3
Nutley Borough			65	78	90	35	28		46		44	51	57	49	5
Orange City		813	830	654	839	190	243		268		539	513		447	52
Roseland Borough		50.25	- 8	18	12	****	**25	5	1	2		****	1	7	
South Orange Borough			77	79	101	28	56		45					88	6
South Orange Township		23 22			55 36	1	14		14		1	24			3
Verona Borough			6	- 6	14		14		13				18		
West Caldwell Borough					250		20	34	41	45	86				

^{*} Marriage certificates received from County Clerk in which the places where the marriages were performed are not stated.

GLOUCESTER COUNTY.

		В	IRTH	8.			MAI	BRIAG	18 .			DI	HTA	8.	
NAME OF PLACE.		1	BAR	3.	İ		1	EARS	١.	.		Y	EARS	3.	
	1906	1907	1908	1909	1910	1906	1907	1908	1909	1910	1906	1907	1906	1909	1910
Clayton	83	88	42	46		5		9	18	6		80 83	18	28	
Deptford	29 25					11 15	10 11	9 10	10 9	14 12	80 81	83 27	32 20	84 20	37 20
Elk	12	100	15	12	8	18	i		5	1	ii	13	7		1 7
Franklin	45		85	35	44	13	9	, E	10		24	27	34		
lassboro	65					29			20	43	35	11	29		48
Preenwich	17		13		19	4	3	8	7	5	14			13	
Harrison	21	21	80	22		4	11	6	5						2
ogan	24 19		28 30	26 26		2	11	11	5 8	5				26 22	10
Mantua	27			35		6	21		19	98	13 35				
National Park Borough				5		2	7		10	25 1	30			9	
Paulsboro Borough	51						8	12	5	Î ŝ	27	22			
Pitman Grove Borough	9	19		35	28	14			21		14		20	80 26	3:
South Harrison	9	5	6	8	5	4		8	7	2	1 4	4	8	5	1 :
swedesboro	26					11	15				29	26	28		
Washington	17						1	2	1						
Wenonah	2					2		2			8		8		
West Deptford	89 42	82 68		82 60	34 59	18 48	14 68	14 49	9 61		24 81	40 72	24	82 75	8
Woodbury	17						90	49	97	90	1 81	12	12		1
M OOI WICH	1 10	1 20	1 20	1 10	1 20	1	1 4	1	•8		, ,	7 .	7 **	1	1 1

^{*} Marriage certificates received from County Clerk in which the places where the marriages were performed are not stated.

HUDSON COUNTY.

		В	IRTH	s.			MAI	RRIAG	es.	_		DE	HTA	s.	
NAME OF PLACE.		3	ear:	3.			¥	EARS	i.			¥	EARS	i.	
	1906	1907	1908	1909	1910	1906	1907	1908	1909	1910	1906	1907	1908	1900	1910
Bayonne	1650 29	1668 29	1719 85	1721 47	1800	344 8			571 8	572 21					827 29
Guttenburg	172 272 1719	164 224 1797	144 293 1978	181 298 1728	165 324 1810	12 117 911	20 123 1136	25 127 2398	27 125 2822	50 148 2383	57 238 1431	65 264 1556	74 223 1266	55 180 1241	67 287 1329
Jersey City	4408 261 842	4794 326 347	4603 817 350	3983 356 321	4681 347 360	2165 74 57	103	95 81	121	128 79	248 173	218 198	287 195	207 178	276 212
Secaucus	495 143	1 326 817 356 847 2 347 350 821 360 8 49 53 32 32 5 496 467 429 614 3 146 155 147 149					222 50	40	72	53	287 130	291 141	294 105	277 125	252 174
West New York												371 186		420 152	

HUNTERDON COUNTY.

		В	IRTH	8.			MA	BRIA(es.			DI	HTA	8.	
NAME OF PLACE.		7	rear:	3.			7	RARE	3.			7	EAR	3.	
	1906	1907	1908	1909	1910	1906	1907	1908	1909	1910	1906	1907	1908	1909	1910
Alexandria Bethlehem Bloomsbury Borough Clinton Borough Clinton Township Delaware East Amwell Flemington Franklin Frenchtown Hampton Hampton High Bridge Holland Kingwood Lambertville Lebanon Raritan Readington Stockton Tewksbury Union West Amwell	22 19 7 16 8 31 11 24 100	35 21 11 10 10 27 17 128 28 81 40 147 17	20 28 28 28 16 16 16 16 84 83 41 81 81 23	8 8 3 24 23 17 12 8 16 20 20 11 100 32 67 43 19	5 84 81 12 19 13 8 18 84 14 17 98 28 54 16 26 18	11 8 10 10 6 6 11 6 2 27 14 26 11 15	8 6 8 5 5 8 4 13 11 11 10 5 83 15 20 20 4 13 3	10 4 12 10 4 8 10 14 11 12 2 84 11 24 7	2 9 5 9 12 5 10 11 10 12 6 8 81 14 21 22 8	8 15 8 14 13 10 8 6 8 9 4 12 10 10 11 10 10 10 10 10 10 10 10 10 10	7 18 85 19 27 14 13 8 30 22 10 80 27 55 86 13	23 7 19 30 26 18 20 25 22 82 15 22 76 88 52 41 88 13	3 12 28 24 22 9 22 16 18 29 19 51 19 64	8 14 12 32 21 9 15 16 23 14 72 41 36 40 21	100 100 130 252 282 270 100 811 800 188 577 811 838 888 810 100 100 100 100 100 100 100 10

^{*} Marriage certificates received from County Clerk in which the places where the marriages were performed are not stated.

MERCER COUNTY.

		В	IRTH	s.			MAI	RRIAC	jes.			DI	HTAS	S.	
NAME OF PLACE.		3	EAR	s.			Y	EARS	i,			¥	EARS	s.	
	1906	1907	1908	1909	1910	1906	1907	1908	1909	1910	1906	1907	1908	1909	1910
East Windsor Ewing Hamilton Hightstown Hopewell Borough Hopewell Township Awrence Pennington Borough Princeton Borough Princeton Township Irenton Washington Wast Windsor	24 31 27	3 43 12 34 17 31 88 15	10 15 58 23 23 18 26 7 106 9 1139 17	12 72 25 14 27 30 10 78 15 1375	19 89 33 15 36 38 9 82 8 1566	11 26 17 15 5 6 5 49	14 10 9 49	1 3 19 32 14 6 8 7 35 865	2 4 28 24 17 6 6 4 43 2 965 8	4 4 12 12 13 15 15 13 51 1093	18 31	32 28 8 63 6	28 54 24 22 44 25 12	16 53 21 14 43 25 9 61	32

^{*} Marriage certificates received from County Clerk in which the places where the marriages were performed are not stated.

MIDDLESEX COUNTY.

		В	IRTH	s.			MAF	RRIAG	ES.			DE	ATH	3.	
NAME OF PLACE.		3	EARS	3.			Y	EARS				y	EARS	is.	
	1906	1907	1908	1909	1910	1906	1907	1908	1909	1910	1906	1907	1908	1909	1910
Cranbury	16	23	30	31	24	8	7	11	16	15			38	15	20
Dunellen	21 33	29	20	35 22	44 16	8	13	9	13	6	19	30	31	16 13	28
Ielmetta	2	10	7	3	9	2	5	2	ó	ő	1	5	1	1	- 1
Highland Park Borough	6	11	11	22	86	5	3	8	3	5	13		8	11	1
amesburg	28	12	28	25	17	18	14	22	11	13	5	5	3	12	1
Madison	5	18	:30	22	26	1		1	0	2	10	8	12	18	20
Metuchen	29	31		35	36	16	14	22	18	13	22	28		28	5
Militown	15		26	31	45	11	8	14	13	14		17	20	12	1
Monroe	15	16	11	12	20	5	12	6	8	357	11	13	454	7	49
New Brunswick	299	375	426	491	557	309	362	336	338	357	422	468	904	487	430
Perth Amboy	346		427	696	1038	419	492	358	432	474	855		395	432	50
Piscataway	29	52	56	43	60	6	10	8	1	17	36	46	37	38	5
Raritan	46		17	22	18	12	8	3	8	3	48		87	23	2
Roosevelt Borough	29	115	157	155	171	1	19	35	45	50	9		61	56	9
Sayreville	187	166		171	211	30	28	17	30		52		50	52	4
South Amboy	50			150	162	15	55		53	65	137		90	94	100
South Brunswick	26	39	27	50	41	86	9	13	10	11	36		82	24 68	53
South River	107	80	134	124	147	86	53		33	109	10	69	-	11	0
Woodbridge	83	87	107	134	182	37	30	30	42	49	123	100	103	95	12

MONMOUTH COUNTY.

		В	RTH	S.			MAI	RRIAG	ES,			DE	ATH	s.	
NAME OF PLACE.		3	EAR	3.			Y	EARS				7	EARS	3.	
	1906	1907	1908	1909	1910	1906	1907	1908	1909	1910	1906	1907	1908	1909	193
llenhurst	2	11	2	6	10		3	2	6		4	9	9	4	
llentown	6	1	1	5	3	6	5	9	2	14	10	7	15		10
Asbury Park	90	166	174	188	189	87	128	146	142	116	131	140	157	164	
tlantic	8	4	12	- 5	6	6	1	7	7	7	16	13	12	3	
lantic Highlands	29	16	27	20	35	6	14	18	14	17	28	21	19	18	1
von		2	12	7	11	7	10	8	5	5	7	15	11	3	1
lmar	9	20	25	38	36	15	25	33	27	36		20	22	24	1
radley Beach Borough	11	4	18	32	33	6	1	14	24	21	13	13	20	24	
al	2	2	6	6	4	4	4	4	4	4	4	5	4	5	I
atontown		32	29	34	44	17	20	20	9	13	42	24	17	18	1
nglishtown		1	6	6	9	11	4	2	3	7		1		0	1
rmingdale	6	9	13	8	15	7	11	14	9	6	10	10	6	8	1
rechold Borough		68	77	84	61		136		42	41		64	64	57	1
rechold Township	109	12	10	26	85	47		7	3	- 5		25	24	22	1
ighlands Borough		11	32	30	44	9	7	10		16		22	25	14	
olmdel		8	17	10	17	5	4	3	6	6		16	10		1
owell		20	38	34	40	17	15	7	7	11		35	22		1
eyport Borough		****		57	70	****	*115	****	35	32			*311	44	1
Long Branch			149	170	248	107	121	120	119	102		288		262	1
analapan	14	14	21	20	32	9	11	16	13	12		8	3	17	1
anasquan		11	12	28	30	15	20		25	11					1
arlboro		15	26	15	28	11	16		8	4	23	19			1
atawan Borough		10	22	11	18	2	20	1	8	16		19			
iddletown		54	86	78	73	31	30			28		77	82		
illstone			6	14	20	2	1		3	4	7	13			
onmouth Beach Borough		6	2	5	3			2				10			
eptune Township			98	113	87	13	41			31					
eptune City Borough		5	6	12	8	2	1			0					
cean			17	19	24		3			3					
aritan	100	76	80	46	39	37	44							30	
ed Bank City			122	67	105	80	69		80				85		
umson Borough		17	24	20	21		2			11		1	15		
eabright		24	31	19	- 23	8	1					11	12		
hrewsbury			50	36	49	27	23						39		
pring Lake Borough			30	31	39	4	6								
pper Freehold			22	42	33		12								
Vall			30	36	38										
Vest Long Branch			4	12	8			6					5		
	1	13.10	1	1	1	*2	*6	*6	*4			1		1	1

Marriage certificates received from County Clerk in which the places where the marriages were performed are not stated.
 The death-rate in summer resorts is calculated on the basis of the resident population, whereas the actual population is often several times larger, and on account of this floating population and the large number of invalids included in it, the death-rate is not a criterion of health conditions.

MORRIS COUNTY.

		В	IRTH	8.			MAI	RRIA	es.			DI	HTA	8.	
NAME OF PLACE.		1	EAR	B	-		1	EARS	3.			7	BARS	3.	
	1906	1907	1908	1909	1910	1906	1907	1908	1909	1910	1906	1907	1908	1909	1910
Boonton City	55	52 2	86			29	89	44		0	68	77	73		10
Butler	48 39	58 25	54 43	64 45	64 43				21 15	81 14	27 19	17	20 22	24 18	30 20
Chatham Township Chester Dover City	17 154	11 9 125	12 138	15	19					1 8 83	14 72	18	12	9	21 100
Florham Park Borough	8 31	38 8	56 14	48	53			15	14	25 0	208 208 24			13 235 12	220 19
lefferson	114	76 26	90 7	108 22	110 26	86	11		8	35 9	85	74 15	45 15	66 25	5
dendham Township dontville dorris Township	26 15 12	14 18	18 18 14	14		8	1 2		3 10 0	1 11 3	15 14 18	25		18 23 24	3
Morristown City Mount Arlington	168 1	211	224 1	288	256 3	2	1	4	98 2	110 2	260 7	281 7	267 6	254 1	29
fount Olive	11 12 28	12 8 40	7 19 27	84	40	2	2	6		5 9 18	9 13 23	8	15		2 3
Pequannock	20	24 7	12 7	18 4	27 14	6	5	4	7 5	5	17 36	21 86	20 34	26 43	2
Rockaway Borough Rockaway Township	50 52 35	44 57 29	48 46 26	41	53	7	10		9	20 14 24	40 51 22	96	65	81 63 40	5 3
Washington	18 18	16		22	45	15	18	18 11 *1	12 83	15 83	18 42		20 34	27	4

^{*} Marriage certificate received from County Clerk in which the place where the marriage was performed is not stated.

OCEAN COUNTY.

		B	IRTH	8.			MAI	RRIAG	3 11 8.			DI	HTA	8.	
NAME OF PLACE.		3	EAR	3,			Y	EARS	3.			3	EARS	3.	
	1906	1907	1908	1909	1910	1906	1907	1908	1909	1910	1906	1907	1908	1909	1910
Barnegat City Bay Head Beach Haven Berkeley Brick Dover Eagleswood Island Heights Jackson Lacey Lakewood Lavalette Little Egg Harbor. Long Beach	11 11 12 14 14 16	25 20 2 27 66 66	21 25 88 2 21 6 97	4 8 8 111 114 455 2 0 23 122 76 0 0 2	10 85 82 8 5 7 81	8 2 1 10 16 9 1 4 5 41	1 16 12 1 5 5 5 1 47	1 2 9 83 2 5 5 8 48	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 7 81 2 0 1 5 87	81 9 22 22 60	66 11 80 82 5 12 13 18 82	4 8 6 18 42 5 5 17 9 74	29 36 5 5 5 29 36 5 5 12 12 64 0	8 1 2 1 8
Manchester Ocean Plumstead	. 2	si e	8	i 5	10) 1	1 1	ıl	. 8	10	2 2	2 20	2 2	rl 2	
Point Pleasant Beach Bo ough Sea Side Park Borough Stafford Tuckerton Union	111111111111111111111111111111111111111	10	10	1 7		1	10		. 7		1 10	il	3 18 0 4 3 18 2 8	1 10	

Marriage certificates received from County Clerk in which the places where the marriages were performed are not stated.

PASSAIC COUNTY.

		В	IRTH	8.			MAI	BRIAG	es.			DI	HTA	8.	
NAME OF PLACE.		3	EAR!	3.			¥	EARS	ı.			Y	EARS	ı.	
	1906	1907	1908	1909	1910	1906	1907	1908	1909	1910	1906	1907	1908	1909	1910
Acquackanonk Haledon Borough Hawthorne Little Falls North Haledon Passaic City Paterson Pompton Pompton Lakes Borough Prospect Park Borough Totowa Wayne West Milford	81 83 22 1 1526 2026 57 21 10 8	20 29 85 4 1273 2491 65 7 15 6	19 11 41 8 1627 2634 90 10 9	15 32 8 1758 2299 77 16 16 4	89 77 .11 2048 2557 78 17 30 16	12 4 15 984 993 84 8 8	9 6 14 1068 1283 25 8 4	9 1 966 1160	16 1 24 2 957 1840 21 11 17 1	20 8 15 2 1267 1087 85 15 17 1	26 50 5 658 1992 82 7	22 42 8 808 1839 48 7 16 5	41 9 762 1867 50 4 18 8	18 14 42 18 783 1888 32 6 24 6	28 34 53 9 819 1850 49 5 23 11

^{*} Marriage certificates received from County Clerk in which the places where the marriages were performed are not stated.

SALEM COUNTY.

NAME OF PLACE.			IRTH					rria(MTH EAR:		
Alloway Elmer Borough Elsinboro Lower Alloways Creek Lower Penns Neck Mannington Oldmans Penns Grove Borough Piltesgrove Pittsgrove Quinton Salem City	25 22 4 19 16 14 16 43 29 88 16	27 12 7 27 18 15 25 27 88 86 11	80 27 10 18 22 21 28 48 43 48 88	25 20 5 25 21 21 81 16 87	27 21 2 28 24 28 18 88 48 80 14	8 14 15 11 10 15 15 4 9 8	7 15 1 4 6 8 10 28 10	5 6 9 1 8 10 17 7 6	5 10 0 9 6 8 15	18 0 5 4 5 7 19 5 5 7	14 15 2 11 20 88 15 20 81 19	13 8 1 23 17 28 17 28 17 28 10	24 15 2 8 14 26 6 27 24 18	14 17 8 21 14 17 12 10 19 23 17	25 5 12 12 21 22 27 22 15 15
Upper Penns Neck Upper Pittsgrove Woodstown	18 17 19	18 19 21	28 19	81 29	28	14	11 14 •2	18 •1		10	25 18	14 87	19	24	28

^{*} Marriage certificates received from County Clerk in which the places where the marriages were performed are not stated.

SOMERSET COUNTY.

NAME OF PLACE.			IRTH				_ •	RRIAG				_	EARS		
	1906	1907	1908	1909	1910	1906	1907	1908	1909	1910	1906	1907	1908	1909	1910
Bedminster Bernards Bound Brook Borough Branchburg Bridgewater Franklin Hillsborough Millstone Montgomery North Plainfield City North Plainfield Township, Raritan	50 85 13 27 37 20 1 14 83 10	57 87 13 23 83 38 1 14 84 45	28 109 11 88	47 12 18 21 26 1 12 91 3	21 28 35 2 10 106 13 72	5 4 20 10 2 11 26 4	7 7 16 10 1 9 26	28 46 3 6 10 13 6 2 87	49 1 2 8 7 1 7 42 0	44 7 2 13 10 0 5 47	42 53 10 18 85 29 5 17 55	43 6 17 81 21 25 87 7 48	56 5 17 31 20 1 24 54 7	51 15 13 40 26 4 19 65 7	7 30 78 4
Rocky Hill Somerville South Bound Brook Warren	91	19 76 10	70 15	17 74 17	16 76 6	41	4	50 5	47	52 7	5	5	9 95	76 21	104 21

SUSSEX COUNTY.

	-	В	IRTH	8.			MA	RRIA	es.			DI	ATH	8.	
NAME OF PLACE.		1	TEAR	s.			X	EARS	1.			3	EARS	3.	
	1906	1907	1908	1909	1910	1906	1907	1908	1909	1910	1906	1907	1908	1909	1910
Andover Borough	. 11	13	2	13	9	6	9	3	7	2		6	11	9	1
Andover Township	. 2		4	8	12	43.67	1	4113	- 0	0	5				1
Branchville	13	9	8			7	6	2	5	9		13	8		
Brooklyn	2555	****	****	0			2285	****	0	0	200	2	5.44	0	
Byram	13		6	10	15 12		****	****	9	0			10	10	1:
Frankiord			4	6	8		9	5	3 2	1 2 1	2		4	9	10
Green		10	7	12			7	1	2	1	2	5	5	3	1
Hampton			4	8	7	i	4	î	2	29	4	8	4	10	1
Iardyston		40	56	85	121	22	29	35	19	29	68			109	8
Topatcong		2	1	0	2	1			1	1	2			4	
Lafayette		13				6	11	8	7	6				11	
Montague			7	3		2	2	1.12	6	0	10			14	
Newton			75	61	71		47		52	47	47		48		5
andyston			17	22			12		14	1 8	26				2
Sparta			25						18	15				12	
Stanhope Borough			10		14	6	7	6	4	7	14				
Sussex Borough			20		15		10			25	16				
ernon					25				8	9	23	21	22		
Walpack		2	5	3	5		1		1	1	5	5	4	5	
Wantage		13	4	6	16	5	3	4	8	8	28	21	26	37	-23

^{*} Marriage certificate received from County Clerk in which the place where the marriage was performed is not stated.

UNION COUNTY.

			-			==									=:-:
,		В	IRTH	s.	-		MAI	RRIAC	ES.			DI	HTA	8.	
NAME OF PLACE.		3	EAR	3.			¥	EARS	1.			Y	EAR	s.	
	1006	1907	1906	1909	1910	1906	1907	1908	1909	1910	1906	1907	1908	1909	1910
Clark	1			7	8		1		1	0	1	6	9	6	3
Cranford	1220		58		75 1440	29 502	25 679		87 650	26 702		44 1194	1084		1124
Fanwood Borough		2	1010	5			1			100	a s	3	4	11	li
Fanwood Township		23	5			9	4	8	20		17	17	21		
Garwood Borough			15	25	29	1	8	ì	1	10	8		9	10	
Kenilworth Borough		7	18				3	11	8	5		6	9		8
Linden Borough		1		7	9		8			7		2	1	5	
Linden Township	1 8 2 7	19					8		2	4	11	15 2	11	14	
Mountainside	2	2	1	5.				2	1	2		2	1	1	7
New Providence Borough.			15	11			5	8	5	9	5	9		10	
New Providence Township.		13		11	6	3	. : : :	. : : :	1	11	16			8	3
Plainfield										198		358	334		
Rahway						79									
Roselle Borough	19					10	.9								
Roselle Park	19					8 8	12 6								
Springfield	26 145										101		106		
Summit City	140			45		02	6								
Union	109				115	54	39								
Webrield	100	1 111	1 04	101	1110		_ 39	33	70	1 01	_ 02	'		1 30	0

WARREN COUNTY.

		В	IRTH	8.			MAI	RRIAG	es.			DE	ATH	8.	
NAME OF PLACE.		3	EARS	3,			¥	EARS	J.			Y	EARS		_
•	1906	1907	1908	1909	1910	1906	1907	1908	1909	1910	1906	1907	1908	1909	1910
Allamuchy	10						1	2	0	0	8	8		3	11
Belvidere	23			21 19	24 18	15 8	28	. 24	20 10	19 10	21 25	34 18	30 23	28 27	21 18
Blairstown	13 21			30			11 7	18 2	10			18 20	23	28	
Franklin	7		2			1	2	6	6	8				14	
Greenwich	9		ã	14		8		ÌŘ	. 10						
Hackettstown									14						
Hardwick	5	2	6	6	7	1		2	1	1	8				
Harmony	30							2	4	5	14				
Hope	11							5	5		7				
Independence	9					5					16				
Knowlton							18	8							
Lopatcong									0 8		3		11		
Mansfield															
Oxford					91	19		1	16		3			8	
Pahaquarry					164	220	219	162							
Pohatcong															
Washington Borough															
Washington Township							11								
	1	1	1	1	1	ĺ	•7	*3	•3	*1	į	i	1	ì	

Marriage certificates received from County Clerk in which the places where the marriages were performed are not stated.

UMMARY.

		-	BIRTHS				MAR	MARRIAGES	ni.			20	EATHS.		
NAME OF PLACE.			YEARS.					rears.				H	YEARS.		
	1906	1907	1808	1800	1910	1906	1907	1908	1909	1810	1806	1907	1908	1906	1910
A stantia County		1			8			1	ļ	1	8	3	8	1	9
Bergen County	8080 8080	2245	2 10 10 10 10 10 10 10 10 10 10 10 10 10	2858	3074	28	200	88	88	18	1349	1470	1481	153	174
Burungton County Camden County	2314		1047	1078	1000	2136	2018	•		2380	\$ 1	1024	2180	2110	1 2 2
Cape May County	323		8	3	3	333	24	•	-	7	8	218	ផ្ល	18	8
Besex County	10908		11614	11744	13438	4205	4517	•		2308	7875	7638	7015	1 2 2	8072
Gloucester County	530	•	642	000	010	213	257			883	\$	92	446	225	486
Hunterdon County	434	٦.	439	10210	11018 583	198	181	٠,		222	2 2 2	65	488	446	28
Mercer County	1431		1470	1709	1944	1100	1133			1237	1820	1887	1990	1937	2350
Monmouth County	1264		1865	1418	1594	988	25			187	1225	1370	1247	1839	1473
Morris County	275	_	1034	1131	1262	386	48			211	1107	1218	1119	1240	1263
Ocean County Passale County	3022		27.5	301	1284	2050	218	•		2480	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	20.00		306	808
Salem County	. 381		8	463	483	215	178	•		22	340	343	335	812	867
Somerset County	888		572	467	8	787	<u>8</u>			\$	\$ 8	8 3	88	472	22
Union County	216		348	25.88	2787	140	100			138	3 2	2084	1952	19.5	2022
•	. 510		662	636	716	456	\$			888	3	642	25	\$	\$
	42677	44651	47405	47508	53942	21580	23649	26155	29724	27912	85670	37408	35597	96359	89494

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		Iyphoid Fever	Kelapsing Fever Malaria Including Malaria Cachexia.	Smallpox Measles Soarlot Fever	Whooping Cough.	Influenza	Asiatic Cholera.	Dysentery.	rellow Fever.	Erysipelas Orber Epidemic Diseases	}	Rables Fetanus	Mycoses. Pellagra			Potts Unease	

TABLE 2.—SHOWING NUMBER OF DEATHS IN NEW JERSEY FROM EACH OF THE CLASSIFIED CAUSES, BY COUNTIES, FOR THE YEAR

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Union.	824 4 5 5 5 8 8 8 4 44454 46844 4 85
Sussex.	4 00 8 20 11 12 11
Somerset.	8
Salem.	8 9 18 1 1 1 8 1 9 1
Passaic.	4 01 0 8 9 8 9 8 1 1 2 2 8 2 1 1 4 8 4
Осевп.	2 0 4 2 4 1 1 1 1 1 2 1 2
Morris.	221 4 8 7 11 9 8 11112 211110
Monmouth.	216 6 3 8 0 0 1 7 4 21 1 2 8 0 6 6
Middlesex.	8 4 8 8 8 2 8 1 8 1 2 21 21 20 41 1 18
Mercer.	CO82 4 2 2 2 2 1 1 2 2 1 1 2 2 4 4 1 1 1 2 4
Hunterdon.	3 2 3 3 5 3 5 1 4 1 1 5
Hudson.	0 1 2 2 0 % c % s 9 9 9 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Gloucester.	6 4 11 1 2 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1
Essex.	5 8 8 8 8 8 4 8 8 4 8 8 4 8 8 8 8 8 8 8
Cumberland.	4 4 6 5 6 8 7 8 6 8 119-4 7 7
Cape May.	8
Camden.	200 0 0 0 0 0 1 0 1 0 1 0 1 1 1 1 4 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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UMBER OF DEATHS IN NEW JERSET FROM EACH OF THE CLASSIFIED CAUSES, BY COUNTIES	inued.
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DEATHS	
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Warren.	122	2000	ө н н	-138	9		9 2266
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Sussex.	222	:			2		9H080H0
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TABLE 2.—SHOWING NUMBER OF DEATHS IN NEW JERSEY FROM EACH OF THE CLASSIFIED CAUSES, BY COUNTIES, FOR THE YEAR EDAIL	Z XE	
LILE 2.—SHOWING NUMBER OF DEATHS IN NEW JERSET FROM EACH OF THE CLASSIFIED CAUSES, BY COUNTIES, FOR ENDING DECEMBER 31, 1910—Continued.	TH	
LILE 2.—SHOWING NUMBER OF DEATHS IN NEW JERSEY FROM EACH OF THE CLASSIFIED CAUSES, BY COUNTIES, ELEMPTES, 1910—Continued.	FOR	
LILE 2.—SHOWING NUMBER OF DEATHS IN NEW JERSEY FROM EACH OF THE CLASSIFIED CAUSES, BY ENDING DECEMBER 31, 1910—Continued.	COUNTIES,	
LILE 2.—SHOWING NUMBER OF DEATHS IN NEW JERSEY FROM EACH OF THE CLASSIFIED CAUSES, ENDING DECEMBER 31, 1910—Continued.	BY	
LILE 2.—SHOWING NUMBER OF DEATHS IN NEW JERSEY FROM EACH OF THE CLASSIFIED ENDING DECEMBER 31, 1910—Continued.	CAUSES,	
•	Y FROM EACH OF THE CLASSIFIED C	ECEMBER 31, 1910—Continued.

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Salem.		• -		4-	-	1	ದ್ವ	, es	7
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TABLE 2.-SHOWING NUMBER OF DEATHS IN NEW JERSEY FROM EACH OF THE CLASSIFIED CAUSES, BY COUNTIES, FOR THE YEAR

TABLE 2.—SHOWING NUMBER OF DEATHS IN NEW JERSET FROM EACH OF THE CLASSIFIED CAUSES, BY COUNTIES, FOR THE YEAR ENDING DECEMBER 31, 1910-Continued.

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TABLE 3.—SHOWING OCCUPATIONS OF DECEDENTS TABLE	Ä	_	Bartenders, &c.		
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TABLE 3.—SHOWING OCCUPATIONS OF DECEDENTS IN CITIES OF OVER 5,000 INHABITANTS IN NEW JERSET FOR THE YEAR ENDING Milkmen. Merchanta Мазопа. Manufacturera Managers, &c. Machinists. 1111111 1111 11 : : : Locksmiths. E1910da.I 2<u>5</u>2347367<u>8</u>2828282824842485 Linoleumworkera Linemen • DECEMBER 31, 1910-Continued. Leatherworkers. TWA AGLS Laundrymen. .aundresses. 111171 Japannera. Janitora, &c. :01 **▼**::::: 11 • | Foundrymen. 900 : : : :∞ 7 :-፡ : . : ' Florists, &c. 1 1 1 : : : Bridgeton. Burlington Camden City. Englewood Garfield Gloucester City Bordentown Hackensack..... ļļ Harrison..... Kearny Lambertville Montclair East Oran Elizabeth. Bayonne 1

All other occupations. All other professions. All other trades Wireworkers Wheelwrights. Weavers. Watchmakers. Walters. Upholsterers. Undertakera. Trunkmakera Linamiths. Tileworkers. Telegraphers Теаслетя Tanners, Tailors. DECEMBER 31, 1910—Continued. Stonecuttera Silk workers. Вроемажета. Shipbuilders Киррегжоткета. Railroad employes. msurance. Real estate and Printers : : Photographera, Paperhangers. CITIES. ersey City..... fontclair

TABLE 3.—SHOWING OCCUPATIONS OF DECEDENTS IN CITIES OF OVER 5,000 INHABITANTS IN NEW JERSEY FOR THE YEAR ENDING

TABLE 3.—SHOWING OCCUPATIONS OF DECEDENTS IN CITIES OF OVER 5,000 INHABITANTS IN NEW JERSEY FOR THE YEAR ENDING DECEMBER 31, 1910-Continued.

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	Housewives.	88 0 181 182 182 183 183 183 183 183 183 183 183 183 183
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•	DECEMBER 31, 1910—Continued.	Florists, &c. Florists, &c. Glasshowers. Glassworkers. Glassworkers. Glassworkers. Glassworkers. Glocers. Identers. Japanners. Japanners. Landrosses. Landrosses. Lettercarriers. Linchenen. Lettercarriers. Linchenen. Laborers. Linchenen. Maragers, &c. Laborers. Marchirists. Maragers, &c. Maragers, &c. Maragers, &c. Maragers, &c. Maragers, &c. Maragers, &c. Maragers, &c. Maragers, &c. Maragers, &c. Maragers, &c. Maragers, &c. Maragers, &c. Maragers, &c.

9	All other occupations.	8504ce14 : 6 65 54c
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<u>P</u>	Physicians	
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□	Paintera.	
ō	Nurses.	-5 N : -
S Z	Musicians.	
TABLE 3.—SHOWING OCCUPATIONS OF DECEDENTS IN CITIES OF OVER 5,000 INHABITANTS IN DECEMBER 31, 1910—Continued.	CITIES.	dortstown ewari ewari ewari ewari ewari orth Plainfeld handed eth Amboy hillipsbur handed handed handed tanceton cahway ed Bank tutherford atlen City own of Union renton renton wari ed Bank tutherford for Wown of Union renton went of Union renton for Wown of Union renton for Wown of Union renton for Hoboken
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CITIES	II	Drivers, &с.	1040 12000040 10 100
5		Dresmakers.	
	II	Coopera. Dentista.	
0		Cooks.	
VE		carpenters.	8848180118840880480480
.0.		Contractors and	
TABLE 4.—SHOWING OCCUPATIONS OF DECEDENTS IN NEW JERSEY, BY COUNTIES, EXCLUSIVE OF TABLE YEAR ENDING DECEMBER 31, 1910.	1	Constables and policemen.	4 0 HULLE 00 HULL
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Ϋ́, Ε̈́	Brickmakers.		<u> </u>
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CITIES OF OVER 5,000 INHABI-	Milkmen.	
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	Laborers.	84842886622888298862
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B E	Icemen.	
N H	Hatters. Hotelkeepers.	
EA A	Grocers.	HO HARAGO HARA TI HA TI
# # # #	Grinders, &c.	
T H	Glassworkers.	
, 10 m	Glassblowers.	<u> </u>
	Florists, &c. Foundrymen.	HD04
, g	Flahermen.	<u> </u>
E E	Firemen.	
IS OF DECEDENTS IN NEW JERSEY, BY COUNTI	Farmers.	200 5 8 8 8 5 5 0 5 5 6 5 6 5 5 5 5 5 5 5 5 5 5 5 5
TABLE 4.—SHOWING OCCUPATIONS OF DECEDENTS IN NEW JERSEY, BY COUNTIES, EXCLUSIVE OF TABLE 4.—SHOWING OCCUPATIONS, FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.	COUNTIES.	Atlantic Berger Berger Burlinger Canden Canden Canden Canden Cumbertand Bear Bust Bust Bust Bust Bust Bust Bust Bust
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3I-	All other occupations.	
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E	All other trades.	040 1 00 HH 4 0
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5,000	Wheelwrights.	[
	Weavers.	
OVER	Watchmakers.	THE THE STREET
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	Орроівсетв.	<u> </u>
CITIES	Undertakers.	
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χŢ	Tailors.	
¥ 2	Stonecutters.	10
E8,	Silkworkers.	2 10 8 10 2 1 2
E f	Вроешакета.	0000 - 4000000 0 - 00 - 00 - 0
5 6	Shipbuilders.	
CO	Selesmen.	
BY	Sallora.	80480001-008 : : : : : : : : :
Y,	Виррегмогкета.	1 8 22
S OF DECEDENTS IN NEW JERSEY, BY COUNT TANTS, FOR THE YEAR ENDING DECEMBER 31,	Real estate and insurance.	000-04 0000
V JE	Railroad employes.	
A	Printers.	0 -
~ 3	Potters.	H
Z Z	Porters, &c.	
2 =	Physicians.	
E E	Photographera.	ĬŦŢĬŔŢĬ ĬĠŦĬŢĬŢŢŢŢŢĬŢ ĬŔ
SDE OR	Paperhangers.	
EC E	Painters.	SOALSSOOR ALURE ASSE
F D	Иптвек	
O X		
Z Z	М ивісівлв.	
ссиратю		
4.—SHOWING OCCUPATIONS OF DECEDENTS IN NEW JERSEY, BY COUNTIES, EXCLUSIVE TANDED, FOR THE YEAR ENDING DECEMBER 31, 1910—Continu	COUNTIES.	n 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
TABLE	! ! !:	Atlantic Burlington Burlington Cape May Canden Cape May Cumberlan Cape May Cumberlan Cape May Cumberlan Cape May Gloucester Hudson Hunterdon Mercer Monmouth Morris Ocean Passakic Passakic Somerret Union Somerret Union

TABLE 5.—SHOWING AGES AT DEATH AND OCCUPATIONS OF DECEMBER

		_		_	_			=	_	_	_		_	_	_					_				_	-
		Architects.	Artists.	Bakers.	Bankers and brokers.	Barbers.	Bartenders, brewers and saloonkeepers.	Blacksmiths.	Boatmen.	Boilermakers.	Bookkeepera.	Brass and iron- workers.	Brickmakers.	Butchers.	Buttonmakers.	Chauffeurs.	Chemists.	Cigarmakers.	Civil engineers.	Clergymen.	Clerks.	Constables and policemen.	Contractors, carpenters and builders.	Cooks.	Coopers.
Consumption.	10 to 15 15 to 20 20 to 38 30 to 40 40 to 50 50 to 60 50 to 670 70 to 80 80 to 90 Over 90				2 8 1 2 1 9	-::54528::: <u>-</u> 19	9 15 7 8	1 1 1 	6 11 3 	::::::::::::::::::::::::::::::::::::::	1595 :: 1 :: -82	2 12 16 7 6 1	1 1 	2 7 4 1 2 — 16	2 1 	2 1 			- :: 1 8 ::: 1 .:: :: :: :: - 5	2 2 1 1 1 7	15 64 51 21 5 8 1	2 5 8 1 1	1 16 16 28 16 7 1	2 5 8 1 	1 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Cancer.	10 to 15 15 to 20 20 to 30 30 to 40 40 to 50 50 to 60 60 to 70, 70 to 80 80 to 90 Over 90			 8 1 8	1 1 1 1	 1	4	 2 2 	 1 2 2 2	1 	 1 1 2 	2 5 1		 1 1 1 1 2 			 1 	 1 2 	 2 	 2 		2 1	1 5 8 11 5 3	 1 2 1 	1 1
Total	8		-1	7	.8	1	4	4	7	1	4	8		6		-	1	8	2	2	21	-8	88	4	2
Suicide	10 to 15 15 to 20 20 to 30 80 to 40 40 to 50 50 to 60 60 to 70 10 to 90 Over 90		 1	1 1 2	1 2 1 	1 2 	4 8 1	2	1	 1	 1 1 	3 1 1 2		 2 2 1 			1 	"i		 1	2 4 8 2 1 1 1 ·····	1	3 2 4 6 4	1	
Total	8	-	1	5	4	3	- 8	5	2	1	2	8	-	5	-		1	1	-	1	18	1	19	1	
Diseases of the nervous system and of the organs of sense.	10 to 15 15 to 20 20 to 30 30 to 40 40 to 50 50 to 60 60 to 70 70 to 80 80 to 90 Over 90		 1	 1 1 5 1	322	1 1 2 2	3 1 3 3 2	 3 5 11 8	3 1 4		1 2 1 3 6	3 2 8 1 2 1	ï	 1 11 11 3 1 1	1 	i i	 1 1 	2 .: 2 5 2 	 1 1	 1 5 2	 4 5 7 8 10 9 6	2 5 2	1 2 5 7 18 18 19 6		
Total	5	_	2	18	7	6	12	 29	18	4	14	17	1	19	1	1	2	11	8	9	50	9	78	11	
Diseases of the circulatory system.	10 to 15 15 to 20 20 to 30 30 to 40 40 to 50 50 to 60 60 to 70 70 to 80 80 to 90	2 1 1 1 2	١	1 1 8 2 1	3 2 1 1	2 2 1 4 7 5	4 4 4 4 2 2	2 10 9 4 3		1	 8 3 5 1 7 1	1 4 6 9 2 4 1	1 	 3 5 1 2 6 1	l	 1 	 1 1 1	 1 2 1 1 		212555	7 6 5 10 14 12 3	4 1 3 6	1 6 13 21 81 48 8	 1 8 1 4 2	
Total	•	7	1	8	8	24	20	30	28	4	20	27	1	18	 -	_ 1	-8	6	-	20	58	15	128	19	-

NEW JERSEY FROM CERTAIN SELECTED DISEASES FOR THE YEAR ENDING 31, 1910.

	pus	pus s			-40						OYES.				4	pus						restau-	put	
Dentists.	Dressmakers ar	Drivers, hostlers and teamsters.	Druggists.	Dyers	Editors and jour- nalists.	Electricians.	Engineers.	Engravers.	Expressmen.	Males.	Females.	Farmers.	Firemen.	Fishermen.	Florists and gar- deners.	Foundrymen a	Glassblowers.	Glassworkers.	Grinders and polishers.	Grocers.	Hatters.	Hotelkcepers, restau- rateurs and stewards.	Housekeepers and housewives.	Icemen.
	97 75 22 1	1 6 33 41 26 14 3		1 1 2		1 4 6 7	1 3 5 1 2 1 	1 2 :: 1	1 1 8 3	3 7 9 5 4 1	9 15 7 1 1	3 10 7 11 9 18 9 4	7 3	i	1 1 4 4 3 1 1	4 4 5 1	4 4 1 3 1	1 3 2	1 5 2 2 2 2	1 4 2 1	7 12 10 6 1 2	6 2 1	30 302 314 187 104 55 20 4	****
	24	124	92	4	1	18	13	4	14	29	33	71	10	1	15	15	13	8	12	-8	38	16	1,016	-
1	1 5	5		 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 1 4 1	11 11 11 11 11 11	1	1 3 1	1	1 4 10 23 14	1 1 1		1 1 3 2 1	2 1 2 2	***		1	2	 1 2 	2 4	15 65 157 247 197 111	****
1	7	13	***	1		***	7	1	 1	5		58	3		8	7			2	3	4	6	26 4 822	
	2	6 1 3	····	1	1	1 1 2		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	** ** * * * * * * * * * * * * * * * * *	1 1 1	1 2	2 2 2 2 6 2	i i		2 2		```i	1111111111		1 1 1	1 1 1 1 1 1 1 1 1		1 2 10 21 24 7 5 1	
	2	10	1	1	1	4	2	***		3	3	14	2	,	4		2			3	5		71	
	1 2 6 1 2 2 2	4 7 5 7 6 5 2	22 8	···· 2	1	 1 3 	 2 4 111 7 	1	1 2 2	1 1 1 1 1 1	1	5 5 21 27 44 38 2	1 2 1 2	 1 1 1 1	1 1 4 5 1	3 1 2 3	2	1 3	1	1 1 5 3 1 1	 1 3 1 5 5	4 2 4 1	2 4 23 64 106 225 301 295 106 8	***
	16	36	7	2	1	4	24	1	5	5	2	142	6	4	12	9	2	4	2	12	15	11	1,134	
1 2 	1 1 3 3 3 2 2	1 6 12 5 12 10 5 1	1 2	111	1	***	8 6 5 1		1 :: 3 2 :: - 6	1 5 1 1 1 1 1 1	1 1 1	2 1 4 8 18 42 67 28 5	1 6 2 1 	1 1		2 2 1	1		1 2	1 2 1 4 1 	1	3 2 5 7 1 2	1 4 59 180 171 215 802 267 100 11	***

TABLE 5.—SHOWING AGES AT DEATH AND OCCUPATIONS OF DECEMBER

			_			_	_	_	_	_	_		_	_			_		_	_	_				_
		Janitors and watchmen.	Japanners.	Jewelers and watch- makers.	Laborers.	Laundresses.	Laundrymen.	Lawyers.	Leatherworkers.	Lettercarriers.	Linemen.	Linoleumworkers.	Locksmiths.	Machinists.	Managers and super- intendents.	Manufacturers.	Masons.	Merchants.	Milkmen.	Millers.	Miners.	Musicians.	Nurses.	Painters.	Paperhangers.
Consumption.	10 to 15.` 15 to 20 20 to 30 30 to 40 40 to 50 50 to 60 60 to 70 70 to 80 90 to 90 Over 90	2 1 6 6 2 2 	 	3	14 84 129 93 57 32 2 	 2 4 2 	 2 5 	:: :::	7 4 6 1 1	1 		1 1 1 1 1 1 1 1 1 1 1 1 1	i i i i i i i i i i i i i i i i i i i	4 11 22 7 6 2 52	4 4 4 2 8 1 1 1	1 3 8 8 8 3 	1 	1 2 7 8 2 4 1 		::: 1 :::: 1 ::::: 2	:: :22211 :: :: 8	4 1 1 1 1 7	1	.:2 8 18 12 6 2 .:.	
Cancer.	10 to 15 15 to 20 20 to 30 30 to 40 40 to 50 50 to 60 60 to 70 70 to 80 80 to 90 Over 90	2 8 9			1 5 13 14 18 9		 2 	 1	 5 					1 2 2 6	1 5 4 5	1 1 1 1	 2 4 1	 1 11 11 3 	 1	 1	 1	2 1 2 1 1	 1 1 2 	24 5 3	1
Total	8	15	2	4	60	1	2	1	5					13	15	3	7	27	2	1	1	7	5	15	2
Buicide.	10 to 15 15 to 20 20 to 30 30 to 40 40 to 50 50 to 60 60 to 70 70 to 80 80 to 90 Over 90			2 2 2 2	10 7 7 6 5 1	i		i	111	i i 	 1		1	3 1 2 1 2 1 	2 1	1	 1 1 1 1		 1 		1 1	 1		 1 5 1 1	
Total	s	1	<u> </u>	6	38	1		1	2	1	1		1	10	5	1	3	10	1		1	1		8	
Diseases of the nervous system and of the organs of sense.	10 to 15 15 to 20 20 to 30 30 to 40 40 to 50 50 to 60 60 to 70 80 to 90 Over 90	1 3 7 8 6 3		3 3 5 8	25 88 25 88 43 64 33 15	·		 1 6 4 2	34 2	 1 2 1 2 	 1			 6 8 6 7 1	 6 7 8 2 1	2 5 6 8	24 6 4 4 3 4 2	 2 4 5 3 22 17 6	1 3	 2 1	 2 	 1 1 1 	 2 2 1 1	 8 6 10 12 3 1	
Total	s	28	3	17	229	3	<u>'</u>	13	10	7	1		-	- 32	24	21		 59	4	3	2	3	6	<u>-</u>	
Diseases of the circulatory system.	10 to 15 15 to 20 20 to 80 30 to 40 40 to 50 50 to 60 70 to 80 80 to 90 Over 90	3 8 14 5 2	 	1	58 12	1 1 1 2 	 2 1 1 	1	 4 8 5 2 	1			111	2 2 7 7 8 6 2 34	3 7 5 8 3 1	2	1 2 3 6 12 7 1 	2	1	 1 2 3	2 1 2 1 6	2 2 1 1 	 1 2 2 6	:: 1 5 4 12 8 10 2 :: 42	1 1

NEW JERSEY FROM CERTAIN SELECTED DISEASES FOR THE YEAR ENDING 31, 1910.

Photographers.	Physicians.	Plumbers.	Porters.	Potters.	Printers.	Railroad employes.	Real estate and insurance.	Rubberworkers.	Sailors.	Salesmen.	Shipbuilders.	Shoemakers.	Silkworkers and silkweavers.	Stonecutters.	Tailors.	Tanners.	Teachers.	Telegraphers.	Tileworkers.	Tinsmiths.	Trunkmakers.	Undertakers.	Upholsterers.	Waiters.	Watchmakers.	Weavers.	Wheelwrights.	Wireworkers.	All other occupations.	All other professions.	All other trades.
1	2 1 	2	 6 8 5 	1 4 7 7 3	2 10 18 8 6 1 1 46	11 28 8 2 8 1 	1 4 5 3 5 	2 2 1 1 5	1 1 1 1 1 	14 7 9 6 2 	 1 1 - <u>2</u>	1 2 5 3 2 1 	17 10 8 4 1	5 8 5 		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 3 1	1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 5 4		1 1 1 1 	1 1 5	1 7 5 4 	2 1 1 1 	2 7 2 6 2 19	1 1	3 1 1 1 1 1 	3 29 16 13 13 1 3 	2 5 3 1	1 5 3 2 5
	1 1 1 		ī	 1	 1 2 8	5 6 2 2 2	1 2 1 1 1 5	1 2 1	1 2 1 4	2 	 1 1 	 1 2 3 	1 1 2	ī	1 2 1 4 4 4 1		 1 1 1 1 9	i i i i i i i i i i i i i i i i i i i	1:1::::::::::::::::::::::::::::::::::::	 2 2		ï i 2	 1 1	" " " "		 1 2 1 	" " " " " " " " " " " " " " " " " " "		1 1 1 8 8 8 3 	···· 2	1 1 3 2 1
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1 1 2 1 	2 2 3 6 			"i	 3 2 3 8 1 	18 3 11 	1 5 2 100 1 1	1	1 3 2 1 5 		 1 1 2	1 1 1 4 5 8 2 	1 1 2 4 2 1 	1 2	2 1 3 5 4 2	2 2	1 2 3 3 2 6 2 	1	***	1 2 5	100	" i i i i i i i i i i i i i i i i i i i	111111	21111	1 1 1 1 1 1 	1 2 1 2 6	311	 2 2	1 6 7 13 10 14 5 	1 1 4 	123 6 2
	1 3 4 5 1	3 2 1	1 2 3 1 	1 2 2 1 1 2 2 2 10	 1 2 2 2 2 2 3 	6 5 11 9 7 1		1 1 1 1 8 2 	2	3 8 11 6 4	1 4	3		1	7 2	1 1 1 	3 1 3 1 4 	1		3 2 1 2 	1 1	 2 1	211111111111111111111111111111111111111	5 1		2 1 	1 1	3 1 1 1 	9	2	1 2 1 2 1 2 1 2 1

TABLE 5.—SHOWING AGES AT DEATH AND OCCUPATIONS OF DECEMBER

		Architects.	Artists.	Bakers.	Bankers and brokers.	Barbers.	Bartenders, brewers and saloonkeepers.	Blacksmiths.	Boatmen,	Boilermakers.	Bookkeepers.	Brass and iron- workers.	Brickmakers.	Butchers.	Buttonmakers.	Chauffeurs.	Chemists.	Clgarmakers.	Civil engineers.	Clergymen.	Clerks.	Constables and policemen.	Contractors, carpen- ters and builders,	Cooks.	Contant
d a 4	10 to 15 15 to 20				***	***		***		***	***						***	***				*****	*****	***	***
piratory system. (Consumption and pneumonia excepted.)	20 to 30		100	1		1	····i	1 1 1 1		1	1	1							ï		5		3	ï	
	40 to 50		***	1	1	***	i	1		***	ï		***	2	111	***	***	1		1	3		4		***
atory systemotics of pneumon excepted.)	50 to 60 60 to 70		ï	1	3		1	1	1 1	1	1	3 2 4 1			191	***		1		1 2	3	******	10	1	-
# G 5 2	70 to 80		***	2		***	1	1 1 4	î	ï	ï	4			***	+++	***	***	444	2		*****	9	1	
40 B	80 to 90 Over 90			2	***	***	.,,,,,	4	***	***	***	1	. **	1	***		***	***		1	1		6	rke.	
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Total		***	- 1	1		4					*		1	4	***	***	***	1	1	0	10	*****	3/	3	
<u>e</u> 8	10 to 15 15 to 20		***			ï	******	***	***	***			***	ï	***	***	:::		***	***	9		1	ï	**
35	20 to 30 30 to 40		***	1		***	2 5	2	ï	ï	ï	2	***	3	***	1		+	***	ï	5 8		3	1	**
Diseases of the gestive system	40 to 50	:::	***			2	7	244	3 2	î	1	- 2		2	***					1	1	4	5	4	
TVE	50 to 60 60 to 70		+49	3	3	2 4	5	3 2	.2	1	1	3	***	1	***	***	1	2	***	2 3	8 7 3	1	6		**
36.0	70 to 80			1		2	1	2	ï	1	119	1	477					1			3	1	5		
T T	80 to 90 Over 90		+14		:::	ï	*****	***			***		***	***		***	***		***	1			3		**
Total		-	-	9	6	12	20	8	7	4	4	14	_	11	-	1	1	3	-	10	41	7	33	18	-
	10 to 15	.,,	***	***		+++	*****	141	***		***	******	***	-0		**			***		*****				
4 5 P	15 to 20 20 to 30			1		9	·····i	ï	9	ï	3	1	***	1	,	***	***	4.7	+++		12	1	4		**
Page 1	30 to 40	466	1		2	2	7	2	2		1	2		***		1	2		1	***	13	4	3	2	.,
sases of ito-urin stem ar	40 to 50 50 to 60			3 1	2 2 3	1	8	4	2	***	3	5 2	144	4		++	***	3	+++	***	6 16	5 2	8	3	
Diseases of the genito-urinary system and adnexa.	60 to 70		1	1	3	1 2	7 8 2 2 4	25453	2 2 2 2 1	2	3	- 3		-6				1	1	3 5	6 5	2	19	1 2	
Sei Sei	70 to 80 80 to 90	***	1	1	1		******		2		***	1	***			+++	***	2		1		1	27 8		**
i	Over 90	161		193	***		,,,,,,,		Yo.				440			***	**		ï				*****		-
Total	S	+++	3	11	9	8	24	20	13	4	14	17	***	18		1	2	7	3	9	60	17	80	10	-
	10 to 15 15 to 20	***		***	***		****		***		ï	i		ï		***	***	ï	***		5		*****		
į	20 to 30 30 to 40			1	ï	ï	1 6		200	1	1	1		1	ï	+44	***	•••	141	1	5 8	2	7		**
Į D	40 to 50	144		2		3	- 6	2	6	2	1	5 5		2				1		1	5		4	1 1 3	
Pneumoni a .	60 to 70	***	1	1	2		6 2	1 2 2 8 2	6 2 5		1	1	***	2 1	2	***		2	1	ï	8	2	12 12	3	**
몺	70 to 80			100			*****	2	ï	2	2 2			1			***		***		6	*****	11		
	80 to 90 Over 90		***	174		***		100	***			*****		***		***	***		***	1		*****	2		
Total	S.,	-	1	4	6	4	21	15	_ 15	6	8	15	1	10	3	_	-	4	1	4	43	-5	52	8	-
<u>:</u>	10 to 15		1.,	114		4.64	*****		193		444	*****		, H+		***	***	***	***	***		*****			
ted b	15 to 20 20 to 30		***		***	1	1		7	2	1	7 9	124	1	***	4	***	***	***	ï	12 10	1	15	ï	**
ce p	30 to 40			1			- 2	3	9	1	2	9		1		2		3			5	1 2 1	15	1	
Violent deaths. Suicide excepted.	40 to 50 50 to 60	***			ï	***	1		4	ï	***	3		2	***		***		:::	1	5	1	12 13		
ide	60 to 70	***			***		1	1	4 2	***							>>+	***	•••	***		1	9 5 1		
Vio utcs	70 to 80 80 to 90			1	***		*****	1	134	ï		*****			***		144	***		***			1	***	
· 65	Over 90				111		*****		***	***		*****			+++		***	+++		140		*****		***	

NEW JERSEY FROM CERTAIN SELECTED DISEASES FOR THE YEAR ENDING 31, 1910.

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Dentists.	Dresmakers and seamstresses.	Drivers, hostlers and teamsters.	Drugglats.	Dyers.	Editors and jour- nalists.	Electricians.	Engineers.	Engravers.	Expressmen.	Males.	Females.	Farmers.	Firemen.	Fishermen.	Florists and gar- deners.	Foundrymen a	Glassblowers.	Glassworkers.	Grinders and polishers.	Grocers.	Hatters.	Hotelkeepers, restau- rateurs and stewards.	Housekeepers and housewives.	Icemen.
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	1					<u> </u>		<u> :::</u>		••••••		10		:::				:::			•••	1	48 7	
_	_ 9	28	2	1		2	10	2	-	 7		58	<u> </u>	3		3	-2	1	<u> </u>	_ 7	_ 6	11	552	
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1	2 3 3 2 1	4 4 14 7 5 5	1 1 2	1 1 2 1	1	1 1 1	2 1 8 3			1	2	4	1								2	2 2 8 2 2	10 70 140 160 188 170 140 46	
2	3 2	7 5	2	1 2	1	1	3		 2	2 1	1	14 32	3	ï	1 5		2 4 1	1		1 5 7	2 1 1 2 8	8 2	188 170	
1	1	5					1			ī		88	3	1 2	4	1	1			7	2	2	140	1
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-4	14	40	4	5		5	10	<u> </u>	3	 6	7	114	_ 16	3	11		7	2		15	9	11	927	
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	4	49	!	8		8	20		1	13	19	57	13	6	2	6	2	1	2	8	2	2	179	

TABLE 5.—SHOWING AGES AT DEATH AND OCCUPATIONS OF DECEMBER

	·																_				DE.	CE	-	<u></u>
		Janifors and watchmen.	Japanners. Jewelers and watch-	makers.	Laborers.	Laundrymen.	Lawers.	Leatherworkers.	Lettercarriers.	Linemen.	Linoleumworkers.	Locksmiths.	Machinists.	Managers and super- intendents.	Manufacturers.	Masons.	Merchants.	Milkmen.	Millers.	Miners.	Musicians.	Nurses.	rainvers.	Paperhangers.
Discases of the respiratory system. (Consumption and pneumonia excepted.)	10 to 15 15 to 20 20 to 30 30 to 40 40 to 50 50 to 60 70 to 80 80 to 90 Over 90	1 2 4 7 4 		1 8 1	8 . 10 . 16 . 21 . 27 . 22 . 13 . 6	1	ï	1 1 2					2 3 1 1	1 1 1 1 1 1 1	2 1 1	1				1 		<u>::: :</u>	1 2 4 1 1 1 9	1
Diseases of the digestive system.	10 to 15 15 to 20 20 to 80 30 to 40 40 to 50 60 to 70 70 to 80 80 to 90 Over 90	 2		 1 3 3 2	4 .	1	1 1	1 2 3		 1		 1	 3 2 2 5 1	1 2 8 1 3	1 1 2 2 1	l	2 5 7 5 4 7	i	 1		 2 2 	1 2 1 2		1 3
Total	s	7		10	115	1 1	4	7		1		1	15	16	9	18	30	<u>, i</u>	2		4	7,1	12	4
Diseases of the genito-urinary system and adnexa.	10 to 15 15 to 20 20 to 80 30 to 40 40 to 50 50 to 60 60 to 70 70 to 80 80 to 90 Over 90	1 2 6 12 4		 1 2 5 1	30 .	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 1 3 3	3 3	1				 4 8 5 2 2 1	2 4 8 4 4 5	1 7 6 3 2	1 3 4 4 9 1 2	 12 11 13 13 3	11	 1 1 1	1 4	 1 2 1 1	1 1 1 1	5 8 7 10	1
Total	8	25		9	191	6 4	7	9	1		-		- 22	22	19	24	61	2	8	5	5	4	31	1
Pneumonia.	10 to 15 15 to 20 20 to 30 30 to 40 40 to 50 50 to 60 60 to 70 70 to 80 80 to 90 Over 90	1 1 1 6 4 4 1	1	1 1 1 8 	32 . 42 . 41 . 85 . 40 . 29 . 6 .	1	1 1 2 2	1 1 1	i			1	 5 7 8 6 2 2	3 1 1 2 1			6 10 			 i i 	1	1 1 1 2 1	1 2 2 3 3 6 3 1	1
Total	8	17	1	8	230	3 1	9	4	1			1	26	8	7	21	24	3		2	4	6	21	2
Violent deaths.	10 to 15 15 to 20 20 to 30 30 to 40 40 to 50 50 to 60 70 to 80 80 to 90 Over 90	1 8 5 3 2 • 4	1	1 1 	97 . 88 . 35 21 . 7 . 2 .	1 3		::: :::		4		ī	4	3 3	1 	4	2 3 4 1 8 			 5 6 4 	1 1 1 		1 1 1 4 4 8 1 	

NEW JERSEY FROM CERTAIN SELECTED DISEASES FOR THE YEAR ENDING $31,\ 1910.$

Photographers.	Physicians.	Plumbers.	Porters.	Potters.	Printers.	Railroad employes.	Real estate and insurance.	Rubberworkers.	Sailors.	Salesmen.	Shipbuilders.	Shoemakers.	Silkworkers and silkweavers.	Stonecutters.	Tailors.	Tanners.	Teachers.	Telegraphers.	Tileworkers.	Tinsmiths.	Trunkmakers.	Undertakers.	Upholsterers.	Waiters.	Watchmakers.	Weavers.	Wheelwrights.	Wireworkers.	All other occupations.	All other professions.	All other trades.
1 		1 2 2 2 1	111111111111111111111111111111111111111	 4 5	1 2 1 1 2 1 8	1 1 1 3 8 2 1	1 4 1 4 1 1		1 3 1	3 6 2 5 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 1 4 8	2 1	 1 1 1 	1 1 2 2 6 	 1 1	1 1 1 1 	***	1 1 1 1 1 1 1 1 1 1 1 1	1 1 2		ï ï <u>-</u> 1	···· ···· ···· ···· ··· ··· ··· ··· ··	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		 1	1 2	 1 1	 2 4 3 8 4 1 22	1 1 1 2	1 1 1
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TABLE 5.—SHOWING AGES AT DEATH AND OCCUPATIONS OF DECEMBER

		Architects.	Artists.	Bakers.	Bankers and brokers.	Barbers.	Bartenders, brewers and saloonkeepers.	Blacksmiths.	Boatmen.	Bollermakers.	Bookkeepers,	Brass and iron- workers.	Brickmakers.	Butchers.	Buttonmakers.	Chauffeurs.	Chemists.	Cigarmakers.	Civil engineers.	Clergymen.	Clerks.	Constables and policemen.	Contractors, carpen- ters and builders.	Cooks.	Соорети.
her snd death.	10 to 15 15 to 20 20 to 30 30 to 40	***	 1	1	 "1	:: 85	7	1 1 3	ï	3	1 4 1	4 2		1 3				1		1 1 1 1	1 6 13 14	 1	1 4 10		*****
of sec	40 to 50 50 to 60 60 to 70	144	ï	3 4	ï	1	8 2 2	2	2	2	2	8		5	ï		***	1 2	1	ï	7 6 8	3	10 15	4	
disea causes	70 to 80 80 to 90 Over 90		1		1	***	1	1	1	111	1 1	2		3	154		***	ī		3	2 2	1	7 4		
Total		-	3	9	3	11	20	10	6	6	9	20	-	16	2	_	1	7	1	5	54	-6	63	5	-

NEW JERSEY FROM CERTAIN SELECTED DISEASES FOR THE YEAR ENDING 31, 1910. $\,$

	pue	pus sa			our-					FACT		ì			gar-	and						s, restau-	pua	
Denimore	Dressmakers as seamstresses.	Drivers, hostlers teamsters.	Druggists.	Dyers.	Editors and jo nalists.	Electricians.	Engineers.	Engravers.	Expressmen.	Males,	Females.	Farmers.	Firemen.	Fishermen.	Florists and ge deners.	Foundrymen a moulders.	Glassblowers.	Glassworkers.	Grinders and polishers.	Grocers.	Hatters.	Hotelkeepers, rateurs and ste	Housekeepers housewives,	Icemen.
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7	9	46	3	1		8	11	-	6	16	14	126	5		9	7	5	4	3	9	6	- 8	1,077	-

TABLE 5.—SHOWING AGES AT DEATH AND OCCUPATIONS OF DECEMBER

		Janitors and watchmen.	Japanners.	Jewelers and watch- makers.	Laborers.	Laundresses.	Laundrymen.	Lawyers.	Leatherworkers.	Lettercarriers.	Linemen.	Linoleumworkers.	Locksmiths.	Machinists.	Managers and super- intendents.	Manufacturers.	Masons.	Merchants.	Milkmen.	Millers.	Miners.	Musicians.	Nurses.	Painters.	Paperhangers.
All other diseases and causes of death.	10 to 15 15 to 20 20 to 30 30 to 40 40 to 50 50 to 60 70 to 80 80 to 90 Over 90	1 1 4 8 8 5 1		1 1	13 46 88 28 84 40 20 16	 1	 1 1 	1 2 	 2 8 8 1	1 1 		 1	 1	.:1 11 6 8 8 1 1	4 2 7 3 1 1	1 1 1 2 1 3 2	2 2 6 2 8 2 2 1	.:2 :2 5 8 7 5 5 ::	 1		 1 2 	 2 	1 1 1	3 1 6 5 2	
Totals	3	18		8	286	1	2	3	15	1		1	1	29	18	11	20	29	1	2	3	2	4	17	

NEW JERSEY FROM CERTAIN SELECTED DISEASES FOR THE YEAR ENDING $31,\ 1910.$

Photographers.	Physicians.	Plumbers.	Porters.	Potters.	Printers.	Railroad employes.	Real estate and insurance.	Rubberworkers.	Bailors.	Salesmen.	Shipbuilders.	Shoemakers.	Silkworkers and silkweavers.	Stonecutters.	Tailors.	Tanners.	Teachers.	Telegraphers.	Tileworkers.	Tinsmiths.	Trunkmakers.	Undertakers.	Upholsterers.	Waiters.	Watchmakers.	Weavers.	Wheelwrights.	Wireworkers.	All other occupations.	All other professions.	All other trades.
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	6	11	5	16	16	34	11	4	5	32	1	12	10	1	7	1	13	2	١	1	ļ	١	1	9		11	8	6	49	4	10

TABLE 6.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,
THE YEAR ENDING

			-	LG1								
Diphtheria and Croup	Under one month.	Under 1 year. "not in-	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
Diphtheria and Croup			71	1	7	7	_				_	-
Including Croup	•••••		l î									•••
Dysentery14		,										
Tuberculosis of the Lungs28	•••••	1			1	•••	1	5	8	2	1	٠.
Abdominal Tuberculosis31	•••••				•••	••••	•••	•••	•••	- 1,	·	
Censes and Other Malignant Tumors of	•••••	1	•••••		•••	•••	•••		•••			-
the Stomach Liver						•••	اا					
Cancer and Other Malignant Tumors of)				ĺ				,		-	ł	1
the Peritoneum, Intestines, Rectum	•••••				•••	•••	•••				·	;·••
Cancer and Other Malignant Tumors of [49]				1						- 4	١.	į
the Female Genital Organs	•••••		•••••		•••	•••	•••		•••	•••••		
Other Tumors (Tumors of the Female)		l						اا			١	I
Chronic Phonmatism and Cont										1		
Die hotos RO	•••••		•••••	•••	•	•••	•••		••••	•••••		
Leuchemia 53	•••••		•••••		*	•••	•••			•••••	ï	•
Simple Meningitis61	•••••		ï						1		١	
Including Cerebrospinal Fever61 A				1			•••					١
Other Diseases of the Spinal Cord	•••••			1			•••					·
Cerebral Hæmorrage, Apoplexy64	•••••	1			•••		•••			1	1	
Paralysis without specined Cause66	•••••	:	••••		•••	•••	•••		•••	ı,	••••	
Aoute Fudoeswittie		1	•••••		••	•••	•••				•••	i i
Organic Discoses of the Heart 79	•••••		•••••		•••	·;;	•••		-1	9		1
Angina Pectoria 80										⁻		١.:
Diseases of the Arteries, Atheroma, Aneurysm, etc81]				١
Acute Bronchitis89		1	1									
Chronic Bronchitis90	•••••					•••				!		١
Bronchopneumonia91	•••••	1		••••		•••	···		••••	•••••	•••	. :
Phoneier 02	•••••	1	2			•••	••••	••••		•••••	•••	1
Other Diseases of the Stomech (Cancer excepted) 103	•••••			*	•••	";	١			•••••	•••	١.,
Diarrhea and Enteritis (under 2 years)104	1	11	2						اأ			Ľ
Diarrhœa and Enteritis (2 years and over)105										i		١
Hernias, Intestinal Obstructions 109			1				,					١
Cirrhosis of the Liver118	•••••						•					١
Other Diseases of the Liver115	••• ••				}	•••		•••	•••	1	•••	١.,
Simple Peritonius (Non-Puerperal)117	•••••		•••••	•••	•••	•••		•••	•••	·····i	•••	1
Acuve Nephrus	•••••		••••	•••	•••	•••	•••	•••	•••			٠.
(Other) Discusse of the literus 130			•••••			••••	1		••••	-	•	1
Congenital Debility, Icterus and Sclerema 151	ė	ï	•••••			***	•••)			1.
Other Diseases Peculiar to Early Infancy152		1				••••				!		١.,
Lack of Care153	1								[١
Senility154]				١
Suicide by Poison155										•••••		
Suicide by Firearms			• • • • •	;	•••	•••		•		•••••	•	
Surns (Connagration excepted)	•••••		••••••]	1	•••†				···j·	;	•••	١
1 (aumousm vy Machines	••••••	•••••	•••••		•••	••• ;		•••	•••;	1	•••	١
Tranmatism by Other Crushing (Vehicles)												
Traumatism by Other Crushing (Vehicles, Railroad, Landslides, etc.)175				1				•••			1	ļ

Total deaths, 170. Death-rate, 16.75.

In the statistical divisions of the state of new jersey, for december $31,\ 1910.$

	A	GE P	ERIO	D8.			82	x.	COLOR.					N	AT	VI	TY.						C	SOCI	AL TION	
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Russia.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 7 .- TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES, THE YEAR ENDING

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DEATHS IN ATLANTIC CITY.	Under one month.	Under 1 year, "not in-	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty five.	Thirty-five to forty.	Forty to forty-five.
Typhoid Fever1			_	1	1	1	1	2			1
Measles6		2		1							
Scarlet Fever	; 				1	•••		1	•••	•••••	
Dinhtherie and Croup	,	y	8 5	ï	•••		•••		***	· ···	
Including Croup. 9 A			ĭ	î							
Dysentery14	,	1							!		
Measles. 6 Scallet Fever. 7 Whooping Cough 8 Diphtheria and Croup. 9 Including Croup. 9 A Dysentery. 14 Purulent Infection and Septichemia. 20 Tuberculous of the Lungs. 28 Tuberculous Menigitis. 30	· ·	1		1					,		
Tuberculous Meningitis		2 3	8			2	8	4	10	7	2
Abdominal Tuberculosis		3	1					ï	1	•••••	ï.
Tuberculosis of Other Organs34	l	ļ					١		- 41	1	
Disseminated Tuberculosis	,	ļ <u>.</u>	,						•••		1
Rickets		3	···· ;	:::	•••						
Cancer and Other Malignant Tumors of	*		•		•••	•••		1	•••	•••••	
the Buccal Cavity	·····		·····		••••	٠	• •		•••;	•••••	
Cancer and Other Malignant Tumors of		Ì				;					
the Stomach, Liver	ı						اا			•••••	
the Peritonoum Intestines Rectum				 							1
Cancer and Other Malignant Tumors of)	1	1		l							
Syphilis							•••	ا···· _ا	••••	•••••	•••
Cancer and Other Malignant Tumors of the Breast43	,								1		2
Cancer and Other Malignant Tumors of the Skin44	····	•••••	•••••	•••		•	•••		•••	•••••	, j
Other Organs or of Organs Not Specified									!		
Diabetes50	ļ				1	ļ		اا		4	1
Leuchæmia53				١	١				·		1,
Leuchemia. 53 Anemia, Chlorosis. 54 Other General Diseases. 55			·····							•••••	
Alcoholism (Acute or Chronic)		1				•••	i	ï	7	2	1
Simple Meningitis61		2	1					ī		ī	;
Locomotor Ataxia	·····] <u>-</u>	ļ <u>.</u>	ļ		•		···.		1	, 1,
Other Diseases of the Spinal Cord		1	8	····		•••	••		•		
Softening of the Brain 65						i		-	1		•
Anæmia, Chlorosis 54 Other General Diseases .55 Alcoholism (Acute or Chronic) .56 Simple Meningitis 61 Locomotor Ataxia 62 Other Diseases of the Spinal Cord 63 Cerebral Hæmorrhage, Apoplexy 64 Softening of the Brain 65 Paralysis Without Specified Cause 66 Other Forms of Mental Alienation 68 Epilepsy 69 Convulsions of Infants 71									1	1	
Other Forms of Mental Alienation			¦	ļ			٠	ا		1	
Epilepsy	'i ······						ļ			•••••	, 1¦
Neuralgia and Neuritia	•••••	2							;	•••••	1
Other Diseases of the Nervous System74			ļ	ï	I		I			•••••	1!
Acute Endocarditis	ļ	1		١				1		1	11
Angine Pectoris 20	······	1	ļ	1			2	3	7	5	3
Diseases of the Arteries, Atheroma, Aneurysm, etc. 81				:-							j
Diseases of the Larynx			1								
Acute Bronchitis	·····	1	·			١					1.
Chronic Bronchitis. 90 Broncho-Pneumonia 91 Pneumonia 92		1	8 7		1	٠.	•••				
Pneumonie 02	ī	6	7		1 2	4		5			
Pleurisy 93 Pulmonary Congestion, Pulmonary Apoplexy 94 Gangrene of the Lung 95	<u>-</u>	ļ			٠		ļ		ĩ	3	
Pulmonary Congestion, Pulmonary Apoplexy94	ļ	1					ļ				1,.
Gangrene of the Lung95	ļ	1		•••		•••				•••••	, .
Asthma					•••	•••		•••		•••••	-
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Other Diseases of the Respiratory System 98 (Tub reulosis excepted)		1									

in the statistical divisions of the state of new jersey, for december 31, 1910.

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Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Swedeh.	Russia.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 7 .- TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES, , THE YEAR ENDING

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· DEATHS IN ATLANTIC CITY.		Under 1 month.	Under 1 year, "not in- cluding under 1 mo."	Qne to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Wanter Ame to dless
Diseases of the Pharynx1	00	ļ		1	١'	١	١'			1			١.
Dicer of the Stomach	02						•••	1		•••	1		ŀ
Harrhose and Enteritie (under 2 veers)	44	1	50		•	1	•••	•••	•••	1	1		l
Diarrhoea and Enteritis (2 years and over)	05	2		í	ï	•••	•••		i	•••	1	2	ı
ppendicitis and Typhlitis1	08					•••	1			1	1	ļ	!
iernias, intestinal Obstructions	09	•••••			•••	1	•••	•••	•••		1	1	
irrhosis of the Liver	13					•••		••••	•		•••••		İ
ther Diseases of the Liver1	15												ĺ
imple Peritonitis (Non-Puerperal)1	17	•••••	•••••	••••			•••			1	1	-:	١
leicht's Dissess	20	•••••			-;	•••			•;;	1		2	١
alculi of the Urinary Passages1	23		2						. 1		'		١
Diseases of the Bladder1	24									1			ĺ
alpingitis and Other Diseases of the	82				1		1			1		١	ı
on-nuerneral Diseases of the Reset i							_						١
(Cancer excepted)	33 .	•••••				•••		•••		•	•••••	1	l
Accidents of Pregnancy1	34											1	l
uerperal Hæmorrhage1	35	•••••			•••		•••	•••	•••	1		¦	İ
Collowing Childhigth (Not otherwise defined)	38	•• ••	•-••		•••	•••	•••	•••	1	•••		•••	١
Pangrene 1	42												į
cute Abscess 1	44										•••••		١
Missesses of the Bones (Tuberculosis expented)	40	•••••	•••••	1	•••		•••	•••	•••		•••••	1	į
Diseases of the Bones (Tuberculosis excepted)	-0	••••	••••		•••	i		•	•••		•• •••		
Rheumatism excepted)	4 7	•••••	•••••		••••	•••	•••	•••	···i	••••	•••••	•••	
Congenital Malformations (Stillbirths not included)1	50	1	•••••		ļ		•••						
Ongenital Deblity, icterus and Scierema	51 89	28	4		•••	•••		•••	•••			•••	
enility	54		2										
uicide by Poison1	55							1				2	
uicide by Asphyxia1	56	••••			•••		•••		•••	•••	•••••		
nicide by Hanging or Strangulauon	5 A			•••••			••••	•••	•••	••••			i
uicide by Firearms1	59										î		
uicide by Cutting or Piercing Instruments1	60 .			ļ								١	
uicide by Jumping from a High Place1	61	•••••	••••	•••••		١	•••	1	•••		•••••	•••	
bearntion of Deleterious Gases (Con-)	40	•••••	••••	•••••		•••	•••	•••	•••	•••	•••••	-	
flagration excepted)	68	••••	••••		ļ	•••	•••	1	•••	1	•••••	1	
ccidental Drowning 1	69 .	••••				2		1	•••		1	٠	
TRUMBUSM Dy FIFERIMS	70	•••••	•••••	·····			•	•••	•••	1	•••••		
raumatism by Fall	79		•••••	· · · i	•••		ï	•••	•••		1	ï	
alpingitis and Other Diseases of the Female Genital Organs. Non-puerperal Diseases of the Breast Cancer excepted). Cancer excepted). Cuerperal Hæmorrhage. 10 uerperal Hæmorrhage. 11 uerperal Hæmorrhage. 12 uerperal Albuminuria and Con'ulsions. 13 ollowing Childbirth (Not otherwise defined). 14 langrene. 15 cute Abscess. 16 ther Diseases of the Bones (Tuberculosis excepted). 17 Diseases of the Bones (Tuberculosis excepted). 18 Rheumatism excepted). 19 Congenital Malformations (Stillbirths not included). 19 Congenital Malformations (Stillbirths not included). 10 Congenital Malformations (Stillbirths not included). 11 congenital Malformations (Stillbirths not included). 12 congenital Debility, Icterus and Scierema. 13 cher Diseases Peculiar to Early Infancy. 14 unicide by Poison. 15 unicide by Hanging or Strangulation. 16 unicide by Firearms. 17 unicide by Firearms. 18 unicide by Turting or Piercing Instruments. 19 unicide by Jumping from a High Place. 10 ther Acute Poisonings. 10 ther Acute Poisonings. 11 cher Acute Poisonings. 12 raumatism by Firearms. 13 raumatism by Firearms. 14 Traumatism by Firearms. 15 raumatism by Machines. 16 Railroads, Landslides, etc.).	74			ļ <u>.</u>		1						١	
raumatism by Other Crushing (Vehicles,)	75								1		2		
Railrosus, Landsiides, etc. j	79					"		***			_	,	
Slectricity (Lightning excepted)1	81								ï		*****	1	
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Total deaths, 800. Death-rate, 17.88.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER 31, 1910—Continued.

	▲ G	E P	ERIO	DS.			SE	x.	COLOR.					NA	TI	VIT	Y.					cc	BOCI.	AL ION	
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Humkery.	Russia.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 8.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,
THE YEAR ENDING

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DEATHS IN BAYONNE.	Under one month.	Under 1 year, "not in-	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty five to forty.	Forty to forty-five.	Done Due to Alter
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iphtheria and Croup9		2	11	7		١	١	١			1	,
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bdominal Tuberculosis31			1	•••					1			١
uberculosis of Other Organs	•••••						1				ļ	ı
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e ebral Hæmorrhage, Apoplexy64						1		1	1	1	2	į
oftening of the Brain65			!								١	
aralysis Without Specified Cause	•••••						٠'	·		1		i
ther Forms of Mental Alienation68	••••	•••••			••••		;	; ••••	•••			ı
Dilepsy			•••••	•••	••••	1				•••••	•••	ł
cute Articular Kneumausm 47 isabetes. 50 xophthalmic Gottre 51 euchemia. 53 ther General Diseases 55 looholism (Acute or Chronic) 56 imple Meningitis. 61 ncluding Cerebro-spinal Fever 61 ocomotor Ataxia. 62 ther Diseases of the Spinal Cord 63 erebral Hemorrhage, Apoplexy 64 fotening of the Brain 66 aralysis Without Specified Cause 68 ther Forms of Mental Alienation 68 pilepsy 69 ovulsions of Infants 71 horea 72 cure Endocarditis 73 rganic Diseases of the Heart 79 ngina Pectoris 80 iseases of the Arteries, Atheroma, Aneurysm, etc. 81 iseases of the Larynx 87 cute Bronchitis 90 ronche-Prepumonia 91	*	. 2	•••••	•••	•••	•••				••••		ł
euralgia and Neuritis 73							اا			•••••		ł
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rganic Diseases of the Heart 79	1				·]		2		4	4	2	ł
ngina Pectoris80	•••••	ļ	•••••	•••		•••	•••			•••••		I
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hronic Bronchitis90						•••			!		٠	I
roncho-Pneumonia	3	16	17	2			1				!	Ì
neumonia92	8	16	7	2	1	ï	5	•••	8	4	8	ł
leurisy93						1			•	1		ļ
ulmonary Congestion, Pulmonary Apoplexy94	8	1	•••••	•••		•••	••••			···· ;	•	
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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER $31,\ 1910.$

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Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	: : Scotland.	Hungary.	Sweden.	Russia.	Holland.	Other foreign.	Not stated.	Married.	Single.		Not stated.
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TABLE 8.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,
THE YEAR ENDING

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DEATHS IN BAYONNE.	Under one month.	Under 1 year, "not in-	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty	Twenty to twenty-five.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.
Diarrhœa and Enteritis (2 years and over)		_		1	-	٦!	7 -	, –	-	4 1
Appendicitie and Typhlitis 108			1	1		4	5	•,	•	7 1
Hernias Intestinal Obstructions 109			•		•••	•••	1	·· , ····	•••••	
Other Diseases of the Intestines 110	9				••••	•••	-1.		•••••	
Cirrhosis of the Liver	ļ	1	٠٠٠٠٠						2	1
Other Diseases of the Liver. 115 Simple Peritonitis (Non-Puerperal). 117 Acute Nephritis. 119 Bright's Disease. 120 Puerperal Hæmorrhage. 1355 Other Accidents of Labor. 136	1		l		1				٠	
Simple Peritonitis (Non-Puerperal)				1					1	1
Acute Nephritis			1	l	!	2		1 2	3	4 1
Bright's Disease		1	. ī	ï	2			2 2	2	8 4
Puerperal Hæmorrhage135		l		٠				. 2		
Other Accidents of Labor136							1 .		1	
Puerperal Septichæmia							!	2		1
Puerperal Albuminuria and Convulsions138			١	١			1,	1	1	
Diseases of the Bones (Tuberculosis excepted)146	, 	l	1		!	1;	.		l	
Congenital Malformations (Stillbirths not included) .150	1	2			!		.			•••
Congenital Debility, Icterus and Sclerema151	35	4				٠١	.	i		
Other Diseases Peculiar to Early Infancy152	5	2		١		!	¦			
Senility 154		١	١	٠						
Suicide by Asphyxia156					•••		.	; 1		
Suicide by Firearms				٠;		l,	¹.		1	'
Other Acute Poisonings165	1	١	·				••••		•••••	
Burns (Conflagration excepted)167			9		1	1	··· ·		·····	1
Absorption of Deleterious Gases (Con-)		1	·	١				2:	·	1
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Accidental Drowning189	•••••	į	, 1	1		2	Z;	. 2	1	1 1
Traumatism by Firearms	•••••	· · · · ·		•••	1	٠١		• • • • •	•••••	
Traumatism by Cutting or Piercing Instruments 71	i	j		•••	•••	•••			•••••	1,
Traumatism by Fall			¦	••••		•••	1	ıl I	•••••	
Traumatism by Machines	·····		•••••	•••	••• '	••• •		•]	••••	
130 Puerperal Septichæmia 137 Puerperal Septichæmia 138 Diseases of the Bones (Tuberculosia excepted) 146 Congenital Malformations (Stillbirths not included) 150 Congenital Debility Icterus and Scierema 151 Other Diseases Peculiar to Early Infancy 152 Senility 154 Suicide by Asphyxia 156 Suicide by Firearms 159 Other Acute Poisonings 165 Burns (Conflagration excepted) 167 Absorption of Deleterious Gases (Con 168 Burns (Conflagration excepted) 168 Accidental Drowning 169 Accidental Drowning 169 Traumatism by Firearms 170 Traumatism by Firearms 171 Traumatism by Fall 172 Traumatism by Fall 172 Traumatism by Machines 174 Traumatism by Other Crushing (Vehicles, 175 Railroad, Landslides, etc. 179 Homicide by Firearms 182 Homicide by Cutting or Piercing Instruments 183 Homicide by Cutting or Piercing Instruments 183				2	1	1.	4	. 1	5	1. 1
Effects of Heat		·	٠		!	∤.		. 2	1	
Homicide by Firearms182		,			•••	٠¦.		2 1		
Homicide by Cutting or Piercing Instruments183		, <u>.</u> .,			!	···'	•••	1,	••••	
Cause of Death not Specified or Ill-defined189	1	. 13	4	••••		٠ا	•••	<u></u>	•••••	

Total deaths, 827. Death-rate, 14.89.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER 31, 1910-Continued.

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Fifty to fifty-five	Fifty-five to staty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Male,	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Scotland.	Hungary.	Sweden.	Kussia. Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated
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TABLE 9.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,
THE YEAR ENDING

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M easles		1							 ,			
Scarlet Fever			1	1	•••		•••	•••	•••	•••••		
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nfluenza. 10	•••••				•••		•••	•••	••••	····i		
Erysipelas 18										Ī		
Tuberculosis of the Lungs28					1	2	4	2	1	1	1	
Tuberculous Meningius	,	1	· • • • • • • • • • • • • • • • • • • •	····	•••	•••	•••	•••	•••	1		
Cancer and Other Malignant Tumors of the	·····		! ••••• !				•••	•••	•••	•••••		•
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Female Genital Organs					•••		•••		!	·	١	
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xophthalmic Goltre51					•••		•••		٠		ļ	
Auchemie 52		•••••		····	•••	•••	•;;	•••	1		i	
nemia. Chlorosis			···i									
Other Diseases of the Spinal Cord												ı
erebral Hæmorrhage, Apoplexy 64	ļ		ļ									
eneral Paralysis of the Insane			•••••		•••		••••	٠,	•••	•••••		
hilensy 89		•••••	•••••	••••	•••	•••	•••	•••	•••	•••••	2	į
onvulsions of Infants71		1	1									
ther Diseases of the Nervous System74			¦ -	!			•••				1	١
Cute Endocarditis	,	·····		٠		1	•••	···· '	•••			İ
Ingina Pectoria 80							•••	i			• •••	
diseases of the Arteries, Atheroma, Aneurysm, etc81								•••				
Diseases of the Larynx87					•••		••••		•••	••••		,
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Broncho-Pneumonia. 91		3	3	1								
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ther Diseases of the Respiratory System (Tuber-								١١	!		ļ.,.	
Other Diseases of the Mouth and Adners 99		1							- 1			
ther Diseases of the Stomach (Cancer excepted)103			8									
Diarrhœa and Enteritis (under 2 years)104		8	4					•••			١	
Diarrhoea and Enteritis (2 years and over)105	•••••			٠	•••	•••		•••		••••	;···	
Viner Diseases of the Liver	,			•••	•••	••••		•••	•••	•••••	!	
Bright's Disease 120		. 1										i
Calculi of the Urinary Passages123								٠'	!		į	
ysts and Other Tumors of the Ovary 131			· 	·	•••	•••				•••••	•••	1
uerperal Septichæmia137	ļ		•••••		•••	•••	•••	•••	1	•••	•••	
Congenital Debility Icterus and Sclerema. 151	5										-	
enlity	,	1										
uicide by Hanging or Strangulation157								ايا		•••••		1
ther Acute Poisonings165				! !	••••	••••	•••	1	•••	•••••		ļ
excented)168	ļ	ļ						•••				
ccidental Drowning			2									
raumatism by Fall172			ļ								ļ	١
raumatism by Other Crushing (Vehicles, Rail-						'					1	I
road, Landshides, etc.)												
	••••		• • • • • •	••••	••••	••••	••••	••••	••••	•••••	1 ***	

Total deaths, 168. Death-rate. 11.15.

In the statistical divisions of the state of new jersey, for december 31, 1910.

===	A (GE P	ERIO	Ds.		81	ex.	COLOR.	1				N.	ATI	VI	TY.			_		_	. cc	SOCI		=
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over sinety.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Rusata	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 10.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,
THE YEAR ENDING

•			_				101			
DEATHS IN BORDENTOWN.	Under one month.	Under 1 year, "not in-	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty-five to forty.	Forty to forty-five.
M.easles	_		-	-	-	-	-	-:	- -	- = =
Measies	•••••		' 1			٠		•••	••• •••	•••
Ninhthoria and Croun		1			1	•••		•••		• • • • •
Influenza 10	•••••			١.	•	••••			.	
Dysentery				1					}	
Tuberculosis of the Lungs28							1	1	'	. 1.
Cancer and Other Malignant Tumors of t	i							! .		
Measles Meas	ı .					١	•••		•••	
Cancer and Other Malignant Tumors of	l		' 			١	l l	l		
Cancer and Other Malignant Tumors of		1	•	1			1			
the Recest Manghallt Tumors of	· 	.,		·]		١	'	•••	1
Cancer and Other Malignant Tumors of			•		1		1	l		1.
Other Organs or of Organs not Specified }			•••••	ļ		•••	····	,	•••	•••;•••
Diabetes50			١,			١				
Simple Meningitis61			1	•••	1		•••			···!··· ·
Cerebrai Hæmorrnage, Apopiexy64				···		····	•••	•••	••••	···;··· ·
Friloner 80					•••	٠	••••			
Pericarditis			1							
Organic Diseases of the Heart79	1			١					•••	1
Angina Pectoris80					١	٠				
Pericarditis		1	' .		 					
Ulcer of the Stomach	•••••	·····		•••	···		••••	;	···;····	
Other Diseases of the Stomach (Cancer excepted) 103	1		. 1	·	ļ	••••	•••	٠	··· ····	
Diarrhee and Enteritis (2 years and over) 105	. *			١	١	• • • • •			•••	
Acute Nephrius 119				1	i		I I		` 	
Bright's Disease		İ	İ		١	١	١ا			
Puerperal Hæmorrhage135				i	١	١				1
Puerperal Albuminuria and Convulsions 138	•••••		٠. ٠.	١	١	•			1	-
Congenital Malformations (Stillbirths not included)150		1	1		···	•••			••••!••••	
Other Disease Penuliar to Farly Infancy 159		1	•••••	••••	•••		•••		••• , ••••	
Senility 154					ı	•••			,	
Puerperal Hemorrhage									!	
Accidental Drowning169						1	1			
Traumatism by Firearms170				ļ	1					
Fraumatism by Fall	•••••			·						1 .
Traumatism by Other Crushing (Venicles, 175		ļ	i	٠					'	1

Total deaths, 80. Death-rate, 18.82.

in the statistical division \$ of the state of new jersey, for december 31, 1910.

	A (BR P	ERIO	DS.			SE	x.	COLOR.					N	ATI	VI.	FY.						C	SOCI		
Fifty to afty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Russia.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 11.-TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES.

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,												_
DEATHS IN BRIDGETON.	Under one month.	Under 1 year, "not in- cluding under 1 mo."	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
Typhoid Fever1				l		2	اا		1	, 1		
Diphtheria and Croup. 9 Including Croup. 9 Influenza. 10	·····		8	ï				•••		i		•••
Influenza												
				٠		٠	٠			<u>.</u>		
Acute Miliary Tuberculosis 29		2	١ ،			2	9	2	3	2	1	1
Influenza 10												
Syphilis	ļ	1		•••			•••	•••		ļ		•••
Ruccal Cavity	·····		1	ļ		 .				ļ	ļ	
Cancer and Other Malignant Tumors of the						ļ				 		
Tuberoulosis of the Lungs	ļ	.								1	2	1
Cancer and Other Malignant Tumors of	1									1	Ι.	
Other Organs or of Organs Not Specified					•••			•••		, <u></u>		•••
Acute Articular Kneumausm47				1	•••			•••		•••••	···	•••
Simple Meningitis61					ï							
Including Cerebro-spinal Fever61 A		1	1					•••				٠.
Cerebral Hemorrhage Apoplexy 64	1					•••	•••	•••	17			•••
Softening of the Brain65				l								
Paralysis Without Specified Cause				1	•••	•••		٠				•••
Other Forms of Mental Alienation	•••••			•••				•••		'		•••
Convulsions of Infants71		1					!					
Other Diseases of the Nervous System74								•••		•••••	· {	•••
Acute Endocarditis	·					ï					ï	
Organic Diseases of the Heart79							1	1		1		•••
Diseases of the Arteries Atheroms Anguresm etc. 21	ļ	••••		•••				•••	•••	•••••	•	•••
Diseases of the Larynx87			2	ï								
Diseases of the Thyreoid Body88		!			•			•••		•••••		•••
Chronic Bronchitis90	2	4		•••	•••			•••		•••••		•••
Broncho-Pneumonia91		1		1								
Primonery Congestion Pulmonery Apopleys 94	·····	2		1	•••	•••	1	•••		•••••	¦	•••
Ulcer of the Stomach							ï					•••
Other Diseases of the Stomach (Cancer excepted)103	ļ				•••							•••
Diarrhose and Enteritis (under 2 years)	¦	5		•••	•••	•••		•••		•••••		•••
Cirrhosis of the Liver									!			
Biliary Calculi	,	:		•••					:			•••
Simple Peritonitis (Non-Puerperal)	1				:::	ï						•••
Acute Nephritis								1				•••
Bright's Disease	ļ						•••	1				1
Diseases of the Bladder												···
Salpingitis and Other Diseases of the Female) 132			l						1		_	
Other Accidents of Labor				'''					,		i	
Puerperal Albuminuria and Convulsions										1		
Diseases of the Bones (Tuberculosis excepted)146				1			•••				¹	•••
Congenital Debility, Icterus and Scierema151	. 4	1	۱	٠'	••••	·'	٠،	••••	••••	· '	١	•••

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER 31, 1910.

	AG	E P	ERIO	DS.		===	SE		COLOR.			=		N.	ATI	VIT	Y.				=		80CI	AL TION	=
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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1	6	1	4 2	1			1 1 1 1 1 14 14	1 2 1]]	1 2 1 2 1 18												1 1 9	1 1 2 2	1 7	
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5	2 1	1 7	4	8	ï		1 14	1 1 14 14 1		27 27 1 1									. 1			11 1 1	1 1 2	1 15	
							1 1 1	14		1 1 1 5												1	1 5		

TABLE 11.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES, THE YEAR ENDING

				A G I	E P	ER	101	D8.		_=	=-	=
DEATHS IN BRIDGETON.	Under one month.	Under 1 year, "not in-	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	H-1	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
Senility		-		-	_	_	_	_	_			
Suicide by Asphyxia	il						l				1	
Suicide by Firearms. 159)	.					1		1			
Other Acute Poisonings	s	.		١						1	1	
Accidental Drowning)							1		•••••		•••
Traumatism by Fall	3	.]							١ا		اا	
Seninty Suicide by Asphyxia. 156 Suicide by Firearms. 156 Other Acute Poisonings. 166 Accidental Drowning. 166 Traumatism by Fall. 177 Traumatism by Other Crushing (Vehicles, Rail- roads, Landslides, etc.) 177 Traumatism Cold	i	.						۰.				•••
		.				١					'	•••
Other External Violence186	3	1			ļ					•••••		•••
Cause of Death Not Specified or Ill-defined189)'	. 8		١	۱		٠	•••			!	•••

Total deaths, 216. Death-rate, 15.20.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER 31, 1910—Continued.

	AG	E P	ERIO	DS.			SE	x.	COLOR.					N.	ATI	VI'	TY.							SOCI.		
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to minety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Russia.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 12.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,

		,		,	GI			IOD				
DEATHS IN BURLINGTON CI	TY.	e mon	Under 1 year, "not in- cluding under 1 mo."	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty-five to forty.	Forty to forty-five.	
yphoid Fever	1					1	1		İ.			
hooping Cough	<u>8</u>		1	1	1				;-		· ·	٠,٠
iphtheria and Croup	9	•••••		•••••		1	•••		•••;•			•[
iphtheria and Croup nituenza rysipelas	10	,			•••	•••	•••				• ; • • •	-1
nharonlasis of the Lungs	98		1	•••••				4		9	•	÷
cute Millery Tuberculosis	29	,		1		•••	-			-		•
uberculosis of the Lungs	34			· 1	١							
uberculosis of Other Organs. ancer and Other Malignant Tumors of the Buccal Cavity. ancer and Other Malignant Tumors of the Stomach, Liver. ancer and Other Malignant Tumors of the Female Genital Organs. ther General Diseases. Imple Meningitis. erebral Hæmorrhage, Apoplexy. oftening of the Brain. arelysis Without Specified Cause.	, 60						1		-			٠,
the Buccal Cavity	o v		•••••	,		•••	•••				• •••	٠!
ancer and Other Malignant Tumors of	40		i	!				!		1		į
the Stomach, Liver							•••				1	1
ancer and Other Malignant Tumors of	48		!	1				i				.!
the Female Genital Organs			1								1	•
tner General Diseases		·····			•••	•••	•••	;				٠
orchest Ummorrhogs Apopleyv	84		•••••					••••	7		1.2	i.
oftening of the Brain	65											- 1
ortening of the Brain aralysis Without Specified Cause eneral Paralysis of the Insane ther Forms of Mental Alienation onvulsions of Infants Other) Diseases of the Eyes and Their Adrericarditis	68										1	
eneral Paralysis of the Insane	67	1			١						.!	-
ther Forms of Mental Alienation					١							
onvulsions of Infants	71			1		•			-		-	•
Other) Diseases of the Eyes and Their Adr	iexa	•			•••	•••			ļ.		•	٠
ericarditis	77	•••••	····;	•••••	•••	•••	1					٠
cute Endocarditis. rganic Diseases of the Heart. ngina Pectoris. iseases of the Iarynx. cute Bronchitis.		,	1	•••••	١	••••	••••		-	;,	: •••	ď
ngina Pantoria	80	•••			١	•••					•	•
iseases of the Larvny	87		••••	1								:
cute Bronchitis.	89				I		i					Ì
nronic Bronenius		1		1	١			i ••• i				٠
roncho-Pneumonia	91							·	-			•
neumonia	92	2	1	2					-		•	•
leurisy	93				١	•••		1	-		-	۰
ther Diseases of the Respiratory System (Tuberculosis excepted)	98		 		ļ	١	 	ا]			ļ	
(Tuberculosis excepted)	104	9	20	1	ļ		ĺ	.]	. 1		1	
ierrhos and Enteritie 2 years and over	105	-	1 20	•		i	١					•
irrhods of the Liver	113					٠		اا			. 1	i
cute Nephritis.	119		1	1				·			.	
ther Diseases of the Respiratory System (Tuberculosis excepted). iarrhoca and Enteritis (under 2 years) iarrhoca and Enteritis 2 years and over). irrhocis of the Liver cute Nephritis right's Disease ongenital Debility, Icterus and Sclerema enility urns (Confiagration excepted) ccidental Drowning raumatism by Fall iffects of Heat ause of Death not Specified or Ill-defined.	120		1	1	ļ	ļ					. 2	2
ongenital Debility, Icterus and Scierema		6	2					<u> </u>	-	•••	٠	•
entity	154					}	٠	`···				٠
urns (Connagration excepted)	167			1				,				•
ecidentsi Drowning	108						١	""	. *		";	ï
IBUMBURM DY FEH	170	ļ		• • • • • • • • • • • • • • • • • • • •		····	١	٠				•

Total deaths, 150. Death-rate, 18.00.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER 31, 1910.

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	Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Russia.	Holland.	other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 13.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,
THE YEAR ENDING

			4	GE	P	ER:	101	8.				
DEATHS IN CAMDEN CITY.	Under one month.	Under 1 year, "not in- cluding under 1 mo."	One to five.	8		Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Porte flee to fifty
Typhoid Fever1	1		2	1		1		2	1	1		-
Méasles 6 Scarlet Fever 7 Whooping Cough 8	1	13	5 4 6	8	:::			::		·····	 	•
Diphtheria and Croup		4	29 8	12 4	5			1			-	
Influenza 10 Dysentery 14			1			•••			1			
Erysipelas				••••	 1	•••	!		•••		1	
Tetanus		1				1						
Tuberculosis of the Lungs 28 Acute Miliary Tuberculosis 29				2	1		16		1		9	
Acute Minary Tuberculosis. 39 Abdominal Tuberculosis. 31 Tuberculosis of Other Organs, 34 Disseminated Tuberculosis. 35 Rickets 36		2	1	1	1	•••	ï	8	1	1	1	
Tuberculosis of Other Organs,34		1				1	•••	-		1	1	
Rickets			<u>.</u>	اا								
Syphilis		2		: ; :	1	•••	!		•••	1	i'''¦	•
Buccal Cavity										2	4	•
Cancer and Other Malignant Tumors of the	1										1,	
Peritonaum, Intestines, Rectum				1				1	1	2	1	
Female Genital Organs. Cancer and Other Malignant Tumors of the Breast				!					•	_		
Concer and Other Malignant Tumors of											1	
Other Organs or of Organs not Specified. \ Other Tumors (Tumors of the Female Genital Organs excepted)					•••	•••			•••	•••••	! *:	
tal Organs excepted)			•••••	····		1			•••	•••••	·	
Chronic Rheumatism and Gout48					1							ľ
Diabetes	1	1	1		1	1			ï			
Leuchæmia				•		<u> </u>	·.;		•••	1	-	
Alcoholism (Acute or Chronic)		ļ						1	1			i
Encephalitis60		i								1		į
Simple Meningitis	4	12	14	8	1	1	<u> </u>		•••		1	ļ
Locomotor Ataxia			ļ <u>.</u>				ï					I
Cerebral Hemorrhage, Apoplexy		i	2		ï				2	2	4	١
Softening of the Brain												İ
Leuchemia 53 Anemia, Chlorosis. 54 Alcoholism (Acute or Chronic) 56 Chronic Lead Poisoning. 57 Encephalitis 60 Simple Meningitis 61 Including Cerebro-spinal Fever. 61 Locomotor Ataxia 62 Other Diseases of the Spinal Cord 63 Cerebral Hæmorrhage, Apoplexy 64 Softening of the Brain 65 Paralysis Without Specified Cause 66 General Paralysis of the Insane 67 Other Forms of Mental Allenation 68							1			····i		i
Epilepsy			1					1				
Convulsions (Non-Puerperal)70	ˈl·····i	8	. 1			:::	1	1				
Other Forms of Mental Allehauon	ļ	· i	1	ï	ļ	1		ï	•••			
Acute Endocarditis			, 1		2	2	2	1		<u>.</u>	3	
Organic Diseases of the Heart		2	2	2	5	8	4	8	6	6	7	

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER 31, 1910.

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Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	: Hungary.		Russia.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 13.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES.

THE YEAR ENDING

	İ		1	GE	P	EBI	0 D8 .			
Diseases of the Arteries, Atheroma. Aneurysm, etc. 8 Diseases of the Larynx	Under one month.	Under I year, "not in- cluding under 1 mo."	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	I wenty to twenty-nive.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.
Diseases of the Arteries, Atheroma. Aneurysm, etc8	1	j	1				1	-	·——	1
Diseases of the Larynx	7 i	. 1	1					·	1	•••
cute Bronchitis	9	6	1		•••		•• } •••	1:::	· · · · · · ·	-
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Broncho-Pneumonia9	1	2: 10	1 8	4	٠	··.'·		2		1 1
'neumonia9	2 ·	7, 38	37	1 4	1	· 2,	4, 8	8	. 7	3
Pulmonary Congestion Pulmonary Apoplexy 9	4		2			11			·	1 1
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Other Diseases of the Respiratory System	•	1	1	l	1	- 1				
(Tuberculosis excepted)	<u></u>	*							¦	
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ther Diseases of the Stomach (Cancer excepted)10	3	2 12	3	· · · ·				2		i
plarrhœa and Enteritis (under 2 years)	4	7 81	14	١		'				,
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and Tuberculosis excepted)	8,			ļ	ļ			. 1		.'
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right's Disease19	0	1	2	1	1	2	2 :	2	2	? 7
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diseases of the Prostate	6			; •••			::			• •••
terine Tumor (Non-Cancerous)12	9			١	١				:	٠.,
Other) Diseases of the Uterus18	o		ļ		,		1	·¦•••	1	լլ
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on-Puerperal Diseases of the Breast (Cancer)	ام	ļ	1	1	l	H		1	١.	
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oncenite! Malformations (Stillbirths not included) 1.5		4			1	•••		· ···		• •••
ongenital Debility. Icterus and Sclerems	1 7	7 14	il		1					1
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uicide by Hanging or Strangulation 15	7			1						. i
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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER 31, 1910—Continued.

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Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column,	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Russia.	Holland	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 13.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,
THE YEAR ENDING

					_		-	==		_
				.GE	PI	BIO	DS.			
DEATHS IN CAMDEN CITY.	Under one month.	Under 1 year, "not in- cluding under 1 mo."	One to five.	Pive to ten.	Ten to fifteen.	Twenty to twenty.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty. Forty to forty-five.	Forty-five to fifty.
167		1	4	2	1		1	_		
Accidental Drowning				3	1	2 1	1	1	1: 1;	ī
Traumatism by Firearms170	;	i		2			. 1,			
Traumatism by Fall				١			. 2	1	1 3	•••
Traumatism by Machines174				¦		•••		1	•••••	•••
Traumatism by Other Crushing (Vehicles, Rail-) 175				1	2	2 1	. 4	8	7 3.	2
Tringle by Animals 174	1	1		1	1	- 1				
Stervetion 177	····i			1				•••		
Excessive Cold 178					•••			1		•••
Effects of Heat. 179		2	,				i			
Homicide by Firearms		l <u>-</u>	1	1		1	2			
Homicide by Cutting or Piercing Instruments	·						. 1	2	1	
Homicide by Other Means184	i				!	1	.			1
Other External Violence186	i'	. 1				1	l			•••
Cause of Death not Specified or Ill-defined189), 2	18	J	.				اا		

Total deaths, 1,627. Death-rate, 17.21.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER $31,\ 1910-Continued.$

	AC	B P	ERIO	De.			82	X.	COLOR.					N.	LTI	VIT	Y.	-				cc	SOCI		
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	freland.	Italy.	Scotland.	Hungary.	Sweden.	Holland	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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4	1	4	1				33	2	8	1 -	1		2	1	2				2	. 1	3	24	6	4	1
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TABLE 14.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,
THE YEAR ENDING

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				GE						
DEATHS IN DOVER.	Under one m	Under 1 year, "not in- cluding under 1 mo."	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty-five to forty.	Forty to forty-five.
Malaria4			1					'		
Tuberculosis of the Lungs		ļ			1		1	1 :	2	··· ···
Stomach Liver40						•••				ļ; 1
Cancer and Other Malignant Tumors of the Stomach, Liver						li				į
Peritonseum, Intestines, Rectum			•••••	••••	•••			···	.	
Peritonsum, Intestines, Rectum	ļ			!		!			.]	
Chronic Rheumatism and Gout		l		l'						1
Simple Meningitis 810 Good 61 Other Diseases of the Spinal Cord 63 Cerebral Hemorrhage, Apoplexy 64 Softening of the Brain 65		2								
Other Diseases of the Spinal Cord63		1	1	•••				٠٠٠)٠٠		·!
Cerebral Hæmorrhage, Apoplexy64	•••••	·	;. .			•••		\	•	••••
Sortening of the Brain. 65 Paralysis Without Specified Cause. 66 Organic Diseases of the Heart. 79 Angina Pectoris. 80 Diseases of the Arteries, Atheroma, Aneurysm, etc. 81 Acute Bronchitis. 89		ļ	•••••		•••					
Organic Diseases of the Heart	1		•••••	:						
Angina Pectoris80										.j
Diseases of the Arteries, Atheroma, Aneurysm, etc 81	ļ	· <u>-</u>	ļ		····	•••				·¦•••j•••
Chronic Bronchitis		1			····	····		•••	• • • • • • • • • • • • • • • • • • •	·[····[···
Chronic Bronchitis				ļ						
Pneumonia 92 Pleurisy 93 Pulmonary Congestion, Pulmonary Apoplexy 94		2	1	1						
Pleurisy93										.
Pulmonary Congestion, Pulmonary Apoplexy94 Asthma	ļ						•••	•••; ••		· • • • • • •
Other Diseases of the Stomach (Cancer excepted) 103		9	ļ	····		•••	•••	· ; ·		
piarrhoea and Enteritis (under 2 years)		9	2		l:::					
Diarrhœa and Enteritis (2 years and over)105				1		٠				¹
Acute Nephritis119	`,	·;	1	·	•••	٠		•	-	
Acute Abscess 144	¦	1 1	'	•••	•••		•••	••• ••		·,··· •
Congenital Malformations (Stillbirths not included)150	i	il								,
Congenital Debility Icterus and Scierems151		3	ļ					,		
Asthma Other Diseases of the Stomach (Cancer excepted). 103 Diarrhœa and Enteritis (under 2 years). 104 Diarrhœa and Enteritis (2 years and over; 105 Acute Nephritis. 119 Bright's Disease. 120 Acute Abscess. 144 Congenital Malformations (Stillbirths not included). 150 Congenital Debility Icterus and Scierema. 151 Senility. 154 Suicide by Firearms							•••			· ··· ···
Suicide by Firearms			•••••	1					1	i,
Accidental Drowning			1		1				:: i	i
Traumatism by Other Crushing (Vehicles,) 178			-	1	Ι.,			1		1
Suincide of Firearms. 159 Burns (Confiagration excepted). 161 Accidental Drowning. 169 Traumatism by Other Crushing (Vehicles, } 175 Railroad, Landslides, etc.). 175 Cause of Death Not Specified or Ill-defined. 189				1			!	• •	1	
Cause of Death Not Specified or III-defined188		. 1	1	1	٠	••••	٠	••••		· · · · ·

Total deaths, 100. Death-rate, 13.39.

in the statistical divisions of the state of new jersey, for december 31, 1910.

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Fifty to fifty-five.	fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Elghty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this	column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Russia.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 15 .- TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES, THE YEAR ENDING

							OD			
DEATHS IN EAST ORANGE.	Under one month.	Under 1 year, "not in- cluding under 1 mo."	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.
Measles 6	_									-
Measles 6 6 Scarlet Fever. 7 Whooping Cough. 8 Influenza 10 Tuberculosis of the Lungs 28 Tuberculous Meningitis 30 Abdominal Tuberculosis. 31 Rickets 36 Cancer and Other Malignant Tumors of the Stomach Liver 40 Cancer and Cancer and Other Malignant Tumors of the Stomach Liver 40 Cancer and Cancer and Other Malignant Tumors of the Stomach Liver 40 Cancer and Cancer and Cancer and Cancer and Cancer and Cancer and Cancer and Cancer and Can		1	3 2 2	1 1 1			1		!	
influenza10	•••••	1		ļ		!		•••, ••		.1
Fuberculosis of the Lungs28						2	5	1, 8	9 8	4
Tuberculous Meningitis30	•••••	1	1	•••	•••	•••	••••	••• '••	.;	1
Riokets 36					1	•••	•••	i	• • • • • •	·
Cancer and Other Malignant Tumors of	•••••	•	l				····	···		•••
the Stomach, Liver	•••••	•••••		····		•••	••••	··· ··	•	. ' • • •
the Paritonaum Intestines Pastnm (*****	*****		•••		•••	••• •••	• • • • • •	•••
the Female Genital Organs	·····		•••••		;	•••		-	•	. 1
Cancer and Other Malignant Tumors of 1		i					1	1	1	
the Breast						•••			· ····	٠
ancer and Other Malignant Tumors of		l		l	١	١			.1	
Comparison Com										
Diebotoe KA			1	l	١,	٠,		١,	Ι,	.:
Anemia Chlorosia 54	•••••				*				1 .	
Alcoholism (Acute or Chronic)56					I				1	11
Simple Meningitis61		1	2		١	ļ			. j	
ocomotor Ataxia62		ļ. .	 -	ļ	٠			••• ••	• • • • •	.
Orobest Ummorphere Aponiary 44		ļ					-::	٠; ا;	. !	
oftening of the Regin	3	·····	•••••		١		14	1 4	.]	
Peneral Paralysis of the Insane					i				• ; ••••• • [;] •••••	1
Other Forms of Mental Alienation68		1								
Convulsions of Infants	1					١		[
Acute Endocarditis78		1		1	•••	•••	٠,	1	1	
Organic Diseases of the Heart	•••••			•••			!		-	l, 1
Diseases of the Arteries, Atheroma, Angurysm, etc	•••••		*****							
Diseases of the Lymphatic System (Lymphangitis, etc.), 84				ļ		I				
Diseases of the Arteries, Atheroma, Aneuryam, etc	1	1	ł		1	ļ		Ţ		1 !
System	! :					!""	····'		.	1
Acute Bronchitis	1	1 2		···				•••	• • • • • • • • • • • • • • • • • • • •	
Broncho-Pneumonia 91	·***i	2	····i	!	i		'			
neumonia92	ī		4	i	1	2		2		. 1
Pleurisy 93 Pulmonary Congestion, Pulmonary Apoplexy 94 Asthma 96										i'
Pulmonary Congestion, Pulmonary Apoplexy94			ļ		١	ļ	اا			· j
Asinma96	· · · · · ·	-		•••		¦		1	·	•}
Williams Discusses of the Respiratory System 1	¦		ļ							
(Tuberculosis excepted)98										- !
Diseases of the Pharynx100	!	 		 	l	ļ				., 1
Other Diseases of the Stomach (Cancer excepted)103	2	1	1	ļ		ļ			.	
Diarrhœa and Enteritis (under 2 years)104	١	7	8	ļ			ļ		· · · · · ·	
DIRITHORA AND ENTERTUS (2 years and over)	,	·····			1		·	•••	1	ı,
Appendicus and Typninus108	,			ļ	1				٠	1
CILILIVER OF AME DILLET CONTROL OF THE CONTROL OF T	,	1	1	1	1					-1
Simple Peritonitis (Non-Puerperal) 17	. 1	1								
Asthma 96 Pulmonary Emphysema 97 Other Diseases of the Respiratory System 97 (Tuberculosis excepted) 98 Diseases of the Pharynx 100 Other Diseases of the Stomach (Cancer excepted) 103 Diarrhœa and Enteritis (under 2 years) 104 Diarrhœa and Enteritis (2 years and over) 105 Appendicitis and Typhilitis 108 Cirrhosis of the Liver 113 Simple Peritonitis (Non-Puerperal) 117 Acute Nephritia 119 Bright's Disease 120	1			1	1		il		1	

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER 31, 1910.

A (E P	RIOI	08.			8.8		COLOR.					NA	TI	VIT	Y.			==		co	ROCIA	L ION.	=
Fifty to fifty-five.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Holland	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
1 1 1 2 1	3	1	1 1			4 2 8 1 14 1	1 1 1 17 17 2 2 2	3 2	1 5 3 4 2 25 2 2 2 1			1 1	 1 								1 18 	1 5 8 4 1 11 2 1	2	
1 1 2 1 1	2 2 1		1			1 1	4 6 8		5 5 1 1 1 1	1											3 5 1	2	1 2 1	
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1			1			2 12	1	i		1	,		1		1						1 1 1 5	1	2 8	

TABLE 15,-TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,
THE YEAR ENDING

•				LGE	P	ER:	ю)6.		_	
DEATHS IN EAST ORANGE.	Under one month.	Under 1 year, "not in-	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.
Calculi of the Urinary Passages		<u> </u>	1			1 1					
Diseases of the Bladder184											
Salpingitis and Other Diseases of the Female		1		i				Ι	.'''		
Genital Organs					····	••••	•••			•••••	
Accidents of Pregnancy184	•			l		اا		!			1.
Puerperal Hæmorrhage185.							!			1	
Furuncle,143											
Congenital Debility, Icterus and Scierema 151	11	. 1		١				اا			
Other Diseases Pecular to Early Infancy158	2		ļ			اا		اا			
Senility154		·	ļ				•••				
Suicide by Asphyxia156											
Suicide by Hanging or Strangulation157		•••••	ļ		••••		•••			•••••	1
Suicide by Firearms159	•••••			•••	•••		•••		1	•••••	
Suicide by Cutting or Fiercing Instruments160	•••••	1		•••	••••		•••		•••	•••••	
Other Acute Poisonings165	•••••		····· <u>·</u>	ļ	•••		•••	i •••	ļ!	•••••	!
Burns (Connagration excepted)	•••••		1		•••	•••	•••	•••	•••	•••••	
Absorption of Deleterious Gases (Confiagration)168				١	l'	٠	l	ll			
Calcul of the Unitary rassages 184				1	1						
Traumatism by Call	•••••	•••••				•••	•••	•••		•••••	••••
Traumation by Other Crushing (Vehicles, Rail-) 175						1		l	1		1
									i		

Total deaths, 370. Death-rate, 10.77.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER 31, 1910—Continued.

	≜ G	E PI	ERIO	D8.			SE	x.	COLOR.					N A	TI	VI	ry.						c	80CI		
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Russia.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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		•••••			٠		2	8		2 6						•••			•••	;	•••	•••		2		٠.,
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TABLE 16.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,
THE YEAR ENDING

İ				GE	PI	BB1	OD	6.				
DEATHS IN ELIZABETH.	Under one month.	Under 1 year, "not in-	One to five.	Fire to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
Typhoid Fever1						i	9	1	9.	2	2	-2
Malaria4									1			
Measles6	1	1	1			1						
Coarlet Fever	••••	} <u>-</u>	6	1'	;			}		1	į;	
Whithering Cough	1	8	10	1	•••			•••	•••¦	•••••	i	•
neluding Croup. 9 A	•••••	•	10	. 1	•••					•••••	•••	•••
Ovsentery	1	8									1	
Crysipelas 18	<u>-</u>											
Purulent Infection and Septichæmia20		١			1.						J1	١
Tetanus		ļ		1	····		i			••••	٠	••
Cuberculosis of the Lungs			į <u>.</u>		•••	8	11.	19	15	11	10	13
Tuberculous Meningiusou	, · ····	2	4	2	1	1	1	···i	1	3	1	••
Puberculosis of Other Organs 34		•	2	1	7	••••		•••	**	1	· •••;	ï
Disseminated Tuberculosis	•••••				- 1	••••	•••	ï				
Rickets			1	'								•••
37 Syphilis				1							1	- 3
Cancer and Other Malignant Tumors of the \ 30				1				- 1	- 1		1	ì
Sickets.				••••	••••	•••		•••		•••••		ı
ancer and Other Malignant Tumors of the	!		1		'	' '		1.				1
Stomach, Liver		1	-	1 1				-				
Paritondana Intestines Rectum				i					1	1	J	١
ancer and Other Malignant Tumors of the		1	1					- 1			١.,	٠
Female Genital Organs		·	•••••		•••	•••	•••		2	1	1	1
Cancer and Other Malignant Tumors of the	1	i	l		1			- 1	٠,		1	
Breast		******	•••••	••••		•••			-1	•••••		
Cancer and Other Malignant Tumors of			İ	اا						1		
Other Organs or of Organs not Specified)	!	1					"					
Acute Articular Kheumatism	¦	•••••	•••••	•	•••		-::	••••]	1		1:3	i ··
Leuchemia 53	ļ			,		-	l i					1
Anemia, Chlorosia		1	1	ï			i!					١
Other General Diseases55	•••••	1				•••				1	1	١.,
Alcoholism (Acute or Chronic)56			١	ļ						2	2	i
)ther Chronic Poisonings59			2					•••	•••			¦••
Simple Meningitis	2	1	1 5	1	••••			•••	•••	•••••	:	•
Including Cerebro-spinal Fever				1	• • • •	1	' -	····;	•••	1	1	1
Other Diseases of the Spinsl Cord. 63		1							•••		1.	1.
Cerebral Hæmorrhage, Apoplexy64	2	. i	1	ï					ï	9	2	
Softening of the Brain65				·		1					·	١.,
Paralysis Without Specified Cause66	ļ		J			١					. 1	١.
Epilepsy		J	ļ	·		ļ			•••		٠	١.
Convulsions of Infants	١	ຸ 8	1 2		•••		·	•••	•••	·····		1.
Inorea		· · · · ·			٠		•••	•••		••••	۱	
Diseases of the Kars			l*	1	l					1	i	
Pericarditis77			1	'i	ï	,			ï	ļ ²	1	1.
Acute Endocarditis78		1	1	2	1	, 2	1		8	1	2 1	ď
Organic Diseases of the Heart79	1	i; 1		2	٠	1		1	2	2	2 3	t)
Angina Pectoris80		· [·····			۱				1	1 1	կ 1	١,٠
Diseases of the Arteries, Atheroma, Aneurysm, etc81	•••••	. 1	·····		١				•••	·····	٠١٠٠٠	·ŀ
54				1	١		•••	••••	•••		١	١.
Discource of the Distribution of stem (Dimputing this, Co.), Or				ï								1
										• • •		
Other Organs or of Organs not Specified. Acute Articular Rheumatism				1	١	١	اا	1	١		.1	.1.

in the statistical divisions of the state of new jersey, for december 31, 1910.

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Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland,	Italy.	Scotland,	Hungary.	Sweden.	Russia.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 16 .- TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES, THE YEAR ENDING

							IOI				
Chronic Bronchitis	Under one month.	Under 1 year "not in- cluding under 1 mo."	One to five.	Five to ten.	Ten to fitteen.	Fifteen to twenty.	Twenty to twenty-hve.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.
Chronic Bronchitis90						-					
Broncho-Pneumonia91	8	17	7	اا		1		1	•••	1	1.
Pneumonia92	2	15	18	3		2	2	2	6	3	7,
Pulmonery Congestion Pulmonery Apoplery 94	•••••	1	1	17	1		1.	-;;		1	
Asthma96		1 .			•••	•••	}	•		1	•••
Pulmonary Emphysema97			1								
Other Diseases of the Respiratory System 98		1				1	1		2		
(Tuberculosis excepted)	•		•••••	اا	***	*	1		~	•••••	
Other) Diseases of the Mouth and Annexa	1		•••••		•••	•••	٠	•••		•••••	•••
Clicer of the Stomach 102	•••••	•	••••		•••	•••		•••	•••		
Other Diseases of the Stomach (Cancer excepted)103	2	5	1								
Diarrhœa and Enteritis (under 2 years)104	19	80	18					[
Diarrhosa and Enteritis (2 years and over)105	•••••		1		•••	•••	1		1	1	•••,
Appendicins and Typnilus				1	•••	•••	1		1	1	•••
Other Diseases of the Intestines 110	•••••	9	Z		••••	•••				•••••	1
Cirrhosis of the Liver 113				•••	•••	ï	-	ï	•••		
Other Diseases of the Liver											
Diseases of the Spleen116											
Simple Peritonitis (Non-Puerperal)117	· • • • •						1				
Acute Nephrius119			•••••		•••	•••			•=		
Discussion of the Riedder 124	••••	1	•••••	···i	•••	••••	1	Z	1	1	8
alpingitis and Other Diseases of the Female	•••••		•••••		•••				•••	•	•••,
Genital Organs			•••••		•••	•••	•••;		1		•••:
Accidents of Pregnancy134								1	1	l	. 1'
Puerperal Hæmorrhage135					•••	•••		!	•••	1	1.
Puerperal Sepuchemia137					•••	•••	2	2	3	1	1
Puerperal Albummuria and Convulsions	••••				•••	••••		-	•••	•••••	···, ··
Acute Abscess. 144	1										
Other Diseases of the Skin and Annexa145	ī	1									
Diseases of the Bones (Tuberculosis excepted)146		2						1			:-
Congenital Malformations (Stillbirths not included)150	_2	1									••• •
Congenital Debuity, Icterus and Scierema	99	9		•••	••••		•••	•••	•	•••••	•
Lack of Care 153	9	•••••	9	•••	•••		•••	•••	•••	•••••	•
Renility 154											
duicide by Polson155						1		1			
Suicide by Hanging or Strangulation157										1	1.
Suicide by Firearms159	- 			•••	•••		1		1	1	1
Suicide by Cutting or Piercing Instruments 160	•••••		•••••	•••	•••		•••	•••	•••	1	٠
Other Acute Poisonings	····i		····i	ï				***			ï
Conflagration166	<u>.</u>		ļ <u>.</u>	اا		I					
Burns (Conflagration excepted)167			6		1						
Absorption of Deleterious Gases (Conflagration)168			ļ	 •••					•••	1	
excepted)	ļ			 	1	l		2	1		1.
Genital Organs 133 Accidents of Pregnancy 134 Accidents of Pregnancy 135 Puerperal Hæmorrhage 135 Puerperal Septichæmia 137 Puerperal Albuminuria and Convulsions 138 Angrene 144 Acute Abscess 144 Other Diseases of the Skin and Annexa 145 Oiseases of the Bones (Tuberculosis excepted) 146 Ongenital Malformations (Stillbirths not included) 150 Congenital Malformations (Stillbirths not included) 150 Congenital Debility , Icterus and Sclerema 151 Other Diseases Peculiar to Early Infancy 152 Lack of Care 153 Senility 154 Suicide by Poison 154 Suicide by Hanging or Strangulation 157 Suicide by Firearms 159 Suicide by Firearms 160 Other Acute Poisonings 165 Ounflagration 165 Durns (Conflagration excepted) 167 Absorption of Deleterious Gases (Conflagration 168 Accidental Drowning 168 Accidental Drowning 169 Traumatism by Fall 172 Traumatism by Other Crushing (Vehicles, Rail- road, Landslides, etc.) 178 Homicide by Firearms 188 Other External Violence 186						1	1	ا و			
Fraumatism by Other Crushing (Vehicles, Rail-			1	4	ï	8	1	16	2	1	:::
road, Landslides, etc.)			•	1	^	۱٦	•	-"	<u>آ</u>	•	"
Excessive Cold178									•••	·····	
Homicide by Firearms				1	1		1			ļ	⁾ .
Dahan Kutannal Walansa 198	1	1				١		1			٠.,٠
Other External Violence		12		١ا						١	

Total deaths, 1,124. Death-rate, 15.81.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER 31, 1910—Continued.

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Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Itlay.	Scotland.	Hungary.	Sweden.	Russia.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
8	6	12 12 1 6 1	8 9 1 2	5 3 1 2	 2 		17 69 4 6 2	-		82 71 6 5	1 2 3 1 1		2 4 1	 16 6 	1 2 1 	 1 	1 2 	1 	 2 		2 1 	:: 1 :: :: ::	1 6 31 1 5 2	28 55 3 3	8 18 3 6	
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TABLE 17.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES.
THE YEAR ENDING

,			4	LGI	e P	ER	101	D8.			
DEATHS IN ENGLEWOOD. Typhoid Fever	Under one month.	Under 1 year, "not in-	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.
yphoid Fever					1	***	***				1
/nooping Cough		1	8		1	***	***	•••	•	·····	
uberculosis of the Lungs				ï		***	1	••••	";	1	1
cute Miliary Tuberculosis		l	l								
uberculous Meningitis80				1							١
ancer and Other Malignant Tumors of the		l		l							١
Stomach, Liver		1		'''							١
Rroad Other Manghant Lumors of the	·					***	***				
cute Articular Rheumatism		l		l							
curvy49		1									
)ia betes						***		•••			ļ
iconolism (Acute or Unronic)			·····		•••	***	•••	•••	••••	1	
imple Meningitis	'	1	•••••	•••	•••		***	•••		•••••	
ncluding Cerebro-spinal Fever		l			•••		1				ļ:::
erebral Hæmorrhage, Apoplexy64						1					1
aralysis Without Specified Cause											١
eneral Paralysis of the Insane67			•••••	•••	•••	***	***	•••		•••••	
/Dilepsy			•••••	•••	•••	***	***	•;;	1	•••••	•••
cute Endocarditis					ï				1	i	
rganic Diseases of the Heart79	·				1	+++	***				1
Diseases of the Arteries, Atheroma, Aneurysm, etc81				•••	•••	+++	***	•••		-	
nseases of the Lymphatic System (Lymphangius, etc.), 54 Propie Bronchitia		•••••		•••	•••	***	•••	•••			
Broncho-Pneumonia	1	· i									
neumonia98		2	1			***		1	1		
Pleurisy										1	٠
ulmonary Congestion, Pulmonary Apoplexy94	•••••	ļ	·····	•••	•••	***	***	•••	•••		•
Nther Diseases of the Respiratory System)	·	·····	í	•••	•••	+++	**	•••	•••	•••••	•••
(Tuberculosis excepted)		ļ		•••	•••	***	***	•••			
ther Diseases of the Stomach (Cancer excepted)103		1	1								ļ
piarrhœa and Enteritis (under 2 years)104		3	1		•••	+++	***				١
ppendicius and Typhiius108				1	2	144	1		•••		٠
ther Diseases of the Intestines 110		ļ	•••••	•••	•••	***	1	•••	•••	•••••	٠
irrhosis of the Liver											l:::
ther Diseases of the Digestive System (Cancer)	.l	l		١.	- 1						
and Tuberculosis excepted)		••••	•••••	•••	•••			•		•••••	
tricht's Disease			•••••	•••	•••	7	***	•••		•••••	···
Diseases of the Bladder				•••						····i	
Other] Diseases of the Uterus130									1	l	
alpingitis and Other Diseases of the Female (199									1		
Genital Organs			•••••	•••	•••	***	***		-	•••••	
ruerperal Albuminuma and Convuisions			•••••	•••	•••	***	***	1		•	
Congenital Debility, Icterus and Scierems	10	1	1								
uicide by Poison155	·		[<u>-</u>			***				1	
Burns (Conflagration excepted)167	ļ		1			***	2	1			
raumatism by Firearms170	}				1		•••	•••		•••••	
raumatism by Fail			•••••	•••	•••	***	***	•••		•••••	
Railroad, Landslides, etc.)				1	•••					1	1
	. 1				1	1	1			l	1
njuries by Animals176			*****	***	***	••••	***	***	••••		1 4

Total deaths, 156. Death-rate, 15.72.

In the statistical divisions of the state of new jersey, for december 31, 1910.

	Ā	GE P	EBIO	D8.			SE	X.	COLOR.					N	AT	VI	TY						cc	SOCI.		
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty,	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" desig- nated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Russia.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated
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TABLE 18.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,
THE YEAR ENDING

		-					101					
DEATHS IN GARFIELD.	Under one month.	Under 1 year, "not in- cluding under 1 mo."	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
Typhoid Fever1	_		_	-		-	1	-	-	_		-
Scarlet Fever	•••••	ļ	····i						••••	· · · · · · · · · · · · · · · · · · ·		•••
Dinbthade and Crayn		ļ;	1 1		•••	•••,	••••	•••		•••••		•••
Diphtheria and Croup	•••••	٠,	•	-		•••		•	'n			••
Tuberculous Meningitis 30		2	2			•••	•••	•	•		1 *	••
Tuberculous Meningitis		I		ı	ï							
Tuberculosis of Other Organs34	1			١								
Cancer and Other Malignant Tumors of the	ļ	1	1	1		i		1			1	1
Stomach, Liver			¦·····			•••	•••		•••	•••••		•
Diabetes		 	ļ .				١					•••
Addison's Disease52						 		1		ļ		•••
Simple Meningitis61	·····		•••••	1	•••	•••	•••	•••		•••••		•••
Cerebral Hæmorrhage, Apoplexy	•••••								1	•••••	•••	•••
Paralysis Without Specified Cause	ļ	1			•••			•••		•••••	i	•
Epilepsy						·:i				•		••
Convulsions of Infants	1											•
Chorea												
Acute Endocartitis78	1			١	١	١	١	١				٠.,
Organic Diseases of the Heart79				١	1	١	١	 		!		
Angina Pectoris80									1		J)	
Acute Bronchitis89	1					٠	ļ			•••••		••
Broncho-Pneumonia91	1 3	5 3 28	3	ļ		٠	ļ		·	·····		•••
Pneumonia	1 3	3	4		ļ			1		1		. 1
Diarrhœa and Enteritis (under 2 years)103	1 1			••					···			•••
Other Diseases of the Intestines	;	20	٥									•••
Other Diseases of the Liver												
Acute Nephritis												
Bright's Disease			····i			١	ĺ		•••			
Diseases of the Bladder		1				l.:			i		1	١.
Assidents of Prognency 194	1						l	1				٠
Acute Abscess144	1	I		١			ļ	١			.	٠
		J	1	ļ	ļ						.	٠.
Congenital Debility, Icterus and Scierema	18	i					ļ					
Congenital Debility, Icterus and Scierema. 151 Suicide by Hanging or Strangulation. 157 Surns (Confiagration excepted). 167 Accidental Drowning. 169 Traumatism by Other Crushing (Vehicles, Rail- road, Landsildes, etc.). 175 Homicide by Cutting or Piercing Instruments. 183		·		1					•		· ···	•
Accidental December 167	J	· • • • • • • • • • • • • • • • • • •		1			•••		•••		· •••	••
Transpartiem by Other Crushing (Vehicles Pell)	'I·····	· ·····		1		1		¦		•••••	٠١٠٠٠	
road landslides ato	·	.	ļ	J		ļ		ļ		! 1	Ų	١.
Homicide by Cutting or Piercing Instruments 123		1	1				1		1	1	i	l
Cause of Death not Specified or Ill-defined	1	2	!	1	1	1	1	1 ***	; •••	1 4	٠,	1.

Total deaths, 180. Death-rate, 12.78.

In the statistical divisions of the state of new jersey, for december 31, 1910.

	A(E P	ERIO	D8.			SE		COLOR.					N.	ATI	VI:	F¥.						α	SOCI	AL TION.	
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Russia.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 19.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,
THE YEAR ENDING

							101				
DEATHS IN GLOUCESTER CITY.	Under one month.	Under 1 year, "not in-	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.
Typhoid Fever	.1		1	1	_	_	1	1			
Whooping Cough	.8	. 2	5	·	١	١	١		1		
Inhtheris and Croup	.9	1	1	2	1	!	li				
nfluenza	0		l	١	١	i			'.	••••	
Tuberculosis of the Lungs	8			١	` 1	: 3	8	1	1	5	•
Disseminated Tuberculosis	55		ļ		' 1				'	1	
ancer and Other Malignant Tumors of \	lo l	1	l	1	•	1	1	;	•		
Disseminated Tuberculosis. Di				•••	ı	ļ		••••	••••	••••	••••
Cancer and Other Malignant Tumors of	2	.	l	١	١	Ì	اا	·			1.
the remaie denital Organs			1	1		1	1	''''	,-		-
Jiadetes		• • • • • • • • • • • • • • • • • • • •	•••••	 	•••				••••	•••••	•••
Alcoholism (Acute of Chronic)		• • • • • • •		•••	••••	····	١٠٠٠,	•••	•••	•••••	•••
Jeredrai Hæmorrnage, Apopiexy		·! •••••	¦•••••		·••	ļ	·!	•••	•••	••••	•••
Perebral Hæmorrhage, Apoplexy Paralysis Without Specified Cause Convulsions of Infants Organic Diseases of the Heart.		: ;			٠			•••	•••	•••••	••••
Ouronic Discours of the West	اهً	2			···	•••					••••
Angina Pectoria		• • • • • • • • • • • • • • • • • • •		ļ				•••	•••	-	•••
Propaha Phanmania				····		i	1	••••		•••••	•
Broncho-Pneumonia. Pneumonia. Pneumonia. Pulmonary Congestion, Pulmonary Apoplexy	9		۰	•••		ì				••••	1
Pulmonery Congestion Pulmonery Anonleys (4	· i	•••••	•••		i			***	•	•
Asthma		•} •	ļ		•••	•••	•••			•••••	,
Other Diseases of the Respiratory System								""		••••	•••
(Tuberculosis excepted)	8	•		¦•••					•••	••••	••••
(Tuberculosis excepted)	3	1 8	4		l						
Diarrhœs and Enteritis (under 2 years)	4	14									
Diarrhœa and Enteritis (2 years and over)	5					1	اا				1
Juner Diseases of the Liver		.)		1	٠		!	1	11.		
Acute Nephritis11	91	.	1	١	i	l	11	1			
Bright's Disease15	:O	.		 						1	1
Puerperal Albuminuria and Convulsions	8	.			١		1			1	:
3angrene	18			¦				٠;		1	!
Congenital Debility, Icterus and Scierema 18 Other Diseases Peculiar to Early Infancy 18 Senility 18	1	7 1		٠	ļ	•••	;			••••	
Other Diseases Peculiar to Early Infancy	38	2	2		ļ	•••	¦:	••••		•••••	
Suicide by Firearms				¦	•••		;	••••	•••	•••••	
Suicide by Firearms		- †		•••	; •••	•••	i i	•::	•••;	1	
Burns (Conflagration excepted)	20	• • • • • •	1					-	٠.; ٠	•••••	
Fraumatism by Fall				••••		1	2		1.	•••••	
Frantation by Other Crushing (Vehicles Pail.)				,	•••			1		•••••	
Traumatism by Other Crushing (Vehicles, Rail- 17 road, Landslides, etc)	15	.		·				1	•		
Avera, Americantico, Cic/init iteministration	1			l	ł	1	1 '		1		1 1

Total deaths, 147. Death-rate, 15.54.

in the statistical divisions of the state of new jersey, for december $31,\ 1910.$

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	Fifty to fifty-five.	Flity-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Russia.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 20 .- TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES, THE YEAR ENDING

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DEATHS IN HACKENSACK.	Under one month.	Under 1 year, "not in-	ē	3,	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	I mirty to mirty-live.	Thirty-five to forty.	Forty to forty-five.
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bdominal Tuberculosis.	31		i i				•••			••••	i
ifluenza etanus uberculosis of the Lungs cute Miliary Tuberculosis. uberculous Meningitis bdominal Tuberculosis. yphilis stomach Liver ancer and Other Malignant Tumors of the Female Genital Organs ancer and Other Malignant Tumors of the	37		.					'	1.	••••	ļ
ancer and Other Malignant Tumors of the	ف		.1		l			1.			i
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Female Genital Organs	 ,							···j	ļ.	•••••	1
ancer and Other Malignant Tumors of the)	LS.							1			ŀ
Breast			· ··· ·				'''	1		•••••	
Other Organs or of Organs not Specified.	l5		.				1		.	•••••	٠
Female Genital Organs ancer and Other Malignant Tumors of the Breast ancer and Other Malignant Tumors of Other Organs or of Organs not Specified. hronic Rheumatism and Gout.	18			١	١	١			.		
labetes	50				ļ	ļ		!		1	ļ
ther General Discases	55	1		1		١		•••	.	•••••	
ther Diseases of the Spinal Cord	88			1						••••••	
labetes. ther General Diseases. Imple Meningitis. ther Diseases of the Spinal Cord. erebral Hemorrhage, Apoplexy. oftening of the Brain. aralysis Without Specified Cause. pliepsy. onvulsions of Infants. ther Diseases of the Nervous System. cute Endocarditis. reganic Diseases of the Heart tiseases of the Arteries, Atheroma, Aneuryam, etc. renumonia.	B4				١			!		••••••• •••••• •••••	1
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onvulsions of Infants	71	2	2 2								١
ther Diseases of the Nervous System	74		٠	·		•	1 1			•••••	٠.,
roanic Diseases of the Heart	79	···[••••		1		l	ï	ï		i	٠
viseases of the Arteries, Atheroma, Aneurysm, etc	B1					ļ		1			
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neumonia Pleurisy	9.8	1	ī i	۱			•••	1	-1		١, ١
ulmonary Congestion, Pulmonary Apoplexy	D4			ï	1	1	1	l,			1
sthma	96			.		ļ		!	;	•••••	. ;
ther Diseases of the Respiratory System (Tuber-	98			.		l	ļ	ļ		1	ı'
Otherl Diseases of the Mouth and Adnexa	99		1			1.		!	!		1
ther Diseases of the Stomach (Cancer excepted)1	03		1	.		ļ					١
plarrhea and Enteritis (under 2 years)1	04	1	6 8	٠٠٠ [٥	· ···	· ···			٠٠٠,	•••••	۱
opendicitis and Typhlitis	08				1		1	ï	•••		2
Iernias, Intestinal Obstructions1	09		1	.			1	'			-, • : • •
irrhosis of the Liver	13				٠			i			•
imple reritonitis (Nonpuerperal)	16			١	· ···	· ···	17		••••	•• ••	• •
Fright's Disease1	20			i						1	i'
alculi of the Urinary Passages1	23			.	.						٠.
ccidents of Fregnancy1	34	••• ••••		• ••	· ···	.; 1	ij	1	·-;	••••	• •
angrene1	42								i	••••	•:•
ongenital Debility, Icterus and Sclerema1	51	18	8	.	.						
enility	54,	···;····	·	-	٠.		· ···	;····¹	····¦		٠,٠
outline by Jumping from a High Place1	65	i		-	.		1	1	•••		٠:٠
Absorption of Deleterious Gases (Conflagration)	40			1	1	1	١	į" i	ا'''ا		٦.
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Accidental Drowning1	69			۱ ۱	2	: 2	٠			•••••	- -
neumonia	·•			.	14	١.				••••	. .
road, Landslides, etc.)	75¦			-		. 1	·	ļ		π	·· ·
Cause of Death not Specified or Ill-defined1	89	1	2	1	١	١,	٠.,	-	5.7	544	d.

in the statistical divisions of the state of new jersey, for december $31,\ 1910.$

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Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	- Russia.	Holland.		Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 21.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES, THE YEAR ENDING

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DEATHS IN HARRISON.	Under one month.	Under 1 year, "not in- cluding under 1 mo."	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thifty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.
yphoid Fever	1				_		_	1			-
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riphtheria and Croup	¥	•••••	5	1	1	•••	•••		¦		
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uberculosis of the Lungs	8						5	8	7	5	2
uberculous Meningitis	o		1					j	1	•••••	١
ancer and Other Malignant Tumors of the	9		l				١	l			1
Bucosi Cavity)	1	1							.	i	i -
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Skin and Other Malignant Tumors of Other Organs or of Organs Not Specified cute Articular Rheumatism			١,	ļ	l		l	1	ı		1
Other Organs or of Organs Not Specified			1 *	i			١				1
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leurisy	3		1	ļ		ļ	ļ	.	1		
sthma	×6		ļ		·	ļ	ļ				٠.
ther Diseases of the Respiratory System, (Tuberculosis excepted)	8			1		ļ	.l	.			١.,
ther Diseases of the Stomach (Cancer excepted)10	3	1 2	2		١		l	.		l	J.,
piarrhœa and Enteritis (under 2 years)1	4	2 17	4						1 ***		. .
plarrhœa and Enteritis (2 years and over)1	5		l	ļ	ļ	ļ	٠ا	.	, 1	1	1
ppendicitis and Typhiltis	8	• • • • • • • • • • • • • • • • • • • •	· · · · · ·	·	٠	·¦	· ···	٠.		į 1	4
Ather Diseases of the Liver	S	• • • • • •	· · · · · ·		· ···		· ···				1.
cute Nephritis	9				'						.]`
(Tuberculosis excepted). ther Diseases of the Stomach (Cancer excepted). 10 isrrhoes and Enteritis (under 2 years). 10 isrrhoes and Enteritis (2 years and over). 11 ppendicitis and Typhlitis. 10 irrhosis of the Liver. 11 ther Diseases of the Liver. 11 ther Diseases of the Liver. 11 iright's Disease. 12 isseases of the Ridder. 11	0		. 1	ı				.	1		٠].
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size of Death Not Specified or III-defined	E341										

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER $31,\ 1910.$

	A	3E P	ERIO	D6.			8E		COLOR.					NA	TI	VIT	Y.						co	SOCIA N DIT	L ION.	_
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Kusaa.	Holland.	Otner Ioreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 22.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,

				AG I	E P	ER	IOI	D8.				
DEATHS IN HOB()KEN.	Under one month.	Under 1 year, "not in- cluding under 1 mo."	One to five.	Five to ten.	Ten to fifteen.	Effteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
Typhoid Fever1				2	_		1	1	2	2	1	-
Measles		2	2	ī	ï			١				
Scarlet Fever			4	3	1	1		1	1			
Whooping Cough		1	4		•••	•••	•••		•••			
Diphtheria and Croup. 9	•••••	i	15 10	4	•••	1		:::		•••••	•••	••
Influenza 10												•••
Dysentery 14		i							•••			١
Erysipelas	1	1		•••	•••	•••			•••		1	
14 14 15 15 16 17 17 18 18 18 18 18 18		1	•••••		•••	•••	• •	•••	•••	•••••		···
Tuberculosis of the Lungs		1	2	••••	2		17	15	24	82	19	1
Acute Miliary Tuberculosis		-	ļ <u>-</u>						1			1
Tuberculous Meningitis30	·····	6	4		 2	1	2		1	2		1
ADDOMINAL TUDErculosis31	·····	2		ï	2	•••	•••	•		2	1	į l
Tuberculosis of Other Organs 34	•••••	` · · · · · · · · · · · · · · · · · · ·		1	•••	•••	•••	•••	ï	1	••••	
Potts' Disease		2										l.:
Cancer and Other Malignant Tumors of the \ 39								1			i	
Cancer and Other Malignant Tumors of the Buccal Cavity. Succaser and Other Malignant Tumors of the Stomach, Liver			l			•••		•	•••			١
Stomach Liver Manghant Tumors of the										1	1	1 8
		1	1							_		١.
Peritonaum, Intestines, Rectum	•••••	•••••		•••		•••	•••		•	1	1	1
Peritonseum, Intestines, Rectum	İ		l	i						1	1	3
Cancer and Other Malignant Tumors of the				'''				'''		-	-	1
Breast 48												
Breast Cancer and Other Malignant Tumors of the		1	1				-					
Skin. Cancer and Other Malignant Tumors of Other Organs or of Organs not Specified Other Tumors (Tumors of the Female Genital Organs excepted)			•••••							••••		-
Other Organs or of Organs not Specified }45]						1	1
Other Tumors (Tumors of the Female Geni-)			١.									
tal Organs excepted)	•••••		1			•••	•••			•••••		
Acute Articular Rheumatism47						•••				•]
Diabetes50	··· ··	•••••	•••••			1	1		ï	•••••		1
Alcoholism (Acute or Chronic)			•••••			•••		•••	8	•••••	ï	7
Simple Meningitis61	8	8		2	ï	ï	ï	2				
Anemia, Chlorosis			1		1							٠.
Locomotor Ataxia62	ļ. 	•••••								·····i	•••	١
Carabrel Hamorrhage Anonlevy 84			•••••	ï	:::		:::	ï	-;			7
1000m0007 AXXIX. 630												l
General Paralysis of the Insane67		1	I					1				١.,
Other Forms of Mental Alienation68 Epilepsy									•••		•••	-
Epilepsy 69 Convulsions of Infants 71									L	•••••	•••	
Diseases of the Ears							:::				•••	-
Povice wiltie										1		١
Acute Endocarditis78			2 1	2	2	2	8	8	2 2	6	8 5	1
Acute Endocarditis	1	•••••	1	1	1	8		8	2	4	٥	١
		*****					::	:::	ï	2		
Diseases of the Arteries, Atheroma. Aneurysm. etc 81					ï]			ļ.,
Diseases of the Arteries, Atheroma, Aneurysm, etc 81 Embolism and Thrombosis	*****		1	!			إ		1			١.
Diseases of the Arteries, Atheroma, Aneurysm, etc								1	-,			ı-
Diseases of the Arteries, Atheroma, Aneurysm, etc	•••••	•••••	,	ŀ	- 1	- 1	ı	- 1	- 1	j		l٠
Diseases of the Arteries, Ameroms, Aneurysm, etc		 	1				-				•••	1
Diseases of the Arteries, Ameroma, Aneurysm, etc.	2	7	1 1 2			 i	1			i	•••	
Diseases of the Arteries, Atheroma, Aneurysm, etc	2 1	19	1		1	1		8			 1	

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER 31, 1910.

	A (SE P	ERIO	D8.	-		SE	x.	COLOR.				_	N	AT:	ıvı	TY.	<u></u>	-	-		_		SOCI	AL TION	<u> </u>
Fifty to fifty-five.	Plfty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.		Ireland.		Scotland.	Hungary.	Sweden.	Russia.	Holland	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 22 .- TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES, THE YEAR ENDING

				GE							
Pleurisy	Under one month.	Under 1 year, "not in- cluding under 1 mo."	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	: Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.
Pleurisy 93			6						_	1	1
Asthma	•••••			•••	•••	2.54				•••••	•••
(Tuberculosis excepted)98	1					***			1		
Other] Diseases of the Mouth and Adnexa99	•••••		•••••	1	•••	•••			•••	•••••	1
Ulcer of the Stomach	•••••	1			***	144	•••		•••	•••••	ï
ther Diseases of the Stomach (Cancer excepted)103	2	2	1	1				;			
Diarrhose and Enteritis (under 2 years)	8	64	13	•••	***			•;;		•••••	1:;
Appendicitis and Typhlitis108	· · · · · · ·			ï	2	2	2		!	1	î
Hernias, Intestinal Obstructions	••••						1		•••		
Hydated Tumor of the Liver112	··· ··	1			***		1	•••		•••••	ï
Cirrhosis of the Liver113	•••••							1	1		4
Ither Diseases of the Liver	•••••	1		1	1	1	1	•;;	1		
Other Diseases of the Digestive System (Cancer	••••				***	***		1		•••••	
and Tuberculosis excepted)	•••••					***			••••		
Acute Nephrius119	•••••	•••••	1		ï	1		4	1		6
Other Diseases of the Kidneys and Adnexa	•••		ļ <u>.</u>			h		i]		
Calculi of the Urinary Passages123	٠			•••	•	•••	•••			•••••	
Diseases of the Prostate					***	***				••••	:::
Jterine Tumor (Non-Cancerous)129						ree				•••••	
labingitis and Other Diseases of the Female)	••••	•••••	•••••	•	•••			1	•••	•••••	
Genital Organs	•••••		·····	•••	***	+++	•••	1	2	•••••	
Accidents of Pregnancy134	••••	•••••	•••••		•••	***	•••	•••	2	1	
Puerperal Albuminuria and Convulsions	• ••••					***		1		1	
angrene143	•••••					***				•••••	1
Acute Abscess	•••••				•••	***	•••	•••	•••	•••••	
Diseases of the Bones (Tuberculosis excepted)146	•••••					1					
Congenital Malformations (Stillbirths not included)150	1			•••	***	***	•••		•••	•••••	
ongenius Debinty, Icterus and Scierema	12		1		***	***			•••		
enility					710	***					
Buicide by Poison	•••••	•••••	••••		***	FFT	1		1	•••••	-
Suicide by Hanging or Strangulation	•••••									1	
Suicide by Drowning	••••			•••	949	646				•••••	
Suicide by Firearms	•••••		•••••		***	1	2	1		1	
Burns (Conflagration excepted)167			8	2	1	***			1		
Absorption of Deleterious Gases (Con-)						***					
Accidental Drowning			 .			3	8		8	6	4
Traumatism by Cutting or Piercing Instruments171			ļ <u>.</u>		***						1
Fraumatism by Fall	••••		1	1	***	194	···		1	8	8
Railroad, Landslides, etc.)	•••••		·····	1	1	***	2	1	1	1	1
njuries by Animals	•••••	ļ			***	***		•;;		•••••	•••
	•••••				***	***	ï	1	:::	1	
Tomicide by Firearms							1	-1		-	1
Homicide by Firearms						***			2	•••••	•••
168 Accidental Drowning				:::		***		ï	2	•••••	

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER $31,\ 1910-Continued.$

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Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male,	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	8weden.	Russia.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 23.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,

				4G	E P	ER	101	08.			
DEATHS IN IRVINGTON.	Under one month.	Under 1 year, "not in- cluding under 1 mo."	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.
Typhoid Fever		_		_	_	-	_	-	1	_	-
Scarlet Fever 7			····i		· ;;						
Influenza		l	1						•		i
Dunontoru 1.4		1	1						1		1.5
Tuberculosis of the Lungs28	••••			1			2	3	اا	2	2
Puberculous Meningitis 30		1									1
Tuberculosis of the Lungs			ļ		1				اا		
Addominal Tuberculosis						l					!
Cancer and Other Malianant Tumors of	•••••		l			•••		•••		•••••	
the Stomach Times 1 tumors of			l								11
Cancer and Other Malignant Tumors of											-
the Peritonseum. Intestines Rectum			 .								l1
Cancer and Other Malignant Tumors of											1
the Breast											
Diabetes											1 1
Anæmia, Chlorosis								•••			
Including Cerebro-spinal Fever			1								
Other Diseases of the Spinal Cord63			ļ								
Diabetes											
Softening of the Brain65											!
Paralysis without Specined Cause66							١				
Prilarer Could of Mental Allehation	•••••		·····			•••	¦	•••		•••••	
Variable and Normitia	•••••	1			•••	•••				•••••	
Acute Endocarditis	•••••	•••••		•••	•••	•••		••••	••••	•••••	···:
Organic Diseases of the Heart 79					••••	•••		•••	•••		
Diseases of the Arteries, Atheroma, Angurysm, etc. 81	•					•••	,	••••		•	1 * 1
Diseases of the Larnyx	•••••		1			••••		•••			
Acute Bronchitis89		2									
Chronic Bronchitis90											
Broncho-Pneumonia91			3	1							
neumonia92		1				1	1		1		
Other Forms of Mental Alienation	•••••										!
(Tuberculouis excepted)									1		1 :
ligogges of the Pheruny				'''		•		•••	-	•••••	1
Other Diseases of the Stomach (Cancer excepted) 102	•••••					•••		•••	1	•••••	
Distribus and Enteritis (under 2 years) 104	٠	3	•••••		•••	•••		•••		•••••	• • •
Diarrhosa and Enteritis (2 years and over) 105	•	•			••••	•••			***	•••••	
Cirrhosis of the Liver					•••	•••				•••••	li
Acute Nephritis 119					•••	•••				•••••	
Bright's Disease120					1		1				
Other) Diseases of the Uterus130			l								
angrene142											11
ongenital Debility, Icterus and Scierema	8	1									
Junet Diseases reculiar to Early Inlancy	3		•••••			•••				•••••]
buicide by Poison	•••••			•••		•••				•••••	
buicide by Asphyvia	•••••				•••	•••				•••••	
Asthma	•••••		•••••			•••	1	•••	1	1	
Craumatism by Other Crushing (Vehicles Reil.	•••••	•••••	•••••	••••	•••	•••		••••		1	
		l	l		اا	1					[]
road, Landslides, etc.)											
Traumatism by Other Crushing (Vehicles, Rail-)		1						- 1			1 ;

Total deaths, 142. Death-rate, 11.96.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSBY, FOR DECEMBER 31, 1910.

	AG	E PI	ERIO	D8.			88		COLOR.					N.	ATI	VI	ry.	-					ro	SOCI N DI	AL ION.	_
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Russia.	Holland.	Other foreign.	: Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 24 .- TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES, THE YEAR ENDING

				GI	P	ER:	ю	X 6.			
DEATHS IN JERSEY CITY.	Under one month.	Under 1 year, "not in- cluding under 1 mo."	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty five to forty.	Forty to forty-five.
Typhoid Fever		_	_	i	8	8	4	5	9	·	1
Valaria	4		1	ï							
Melaria Menales	6 2	2	15	2				1			
		2 6	21	6	1	2	1	1			
Whooping Cough	8 1	6	5	1	این						
Diphtheria and Croup	9	1		19	8	1	1			•••••	•••;
nductions: Croup,	<u></u>	1	12 1	2	•••	•••	•••	····		•••••	••••
	4	8	. •	••••			•••			•••••	•••
Ervsipelas	8 2	4		•••	ï			ï	ï	2	
Other Epidemic Diseases1	9	1	1					!			
Purulent Infection and Septichæmia	0 2			1				l	1	1	3
retanus	4	:			1						
Tuberculosis of the Lungs	8	6	2	2	1	20	58	58	62	74	19
Cuberculous Meningitis	Ž	- i	10		•::	4		ï	1	ï	۳,
Abdominal Tuberculosis	1	3	10	2	í	3	ı		4	i	2
Abdominal Tuberculosis	2					•••	î		-		
White Swellings	8						1				
[uberculosis of Other Organs	4						1	2	2	1	
Disseminated Tuberculosis	<u> 5</u>				•••		2			••••	••••
Pot's Disease	*		2	•••	•				•••	•••••	•••
Pencer and Other Walignant Tumors of a		1 *		•••	•••	•••		2	•••	•••••	•••
the Buccal Cavity	9j		••••	•••	•••	•	J			1	1
Cancer and Other Malignant Tumors of	•	1				١,		1		1	8
the Stomach, Liver						•		-			•
Cancer and Other Malignant Tumors of	1					l	l		اا		3
Canage and Other Malignant Tumors of	-							1			
the Remale Genital Organs	2						٠		2	8	4
Cancer and Other Malignant Tumors of		1	1				1		,		١.,
the Peritonæum, Intestines, Rectum Cancer and Other Malignant Tumors of the Female Genital Organs Cancer and Other Malignant Tumors of the Bresst.	3	· · · · · ·			•••		!	••••	•••	1,	2
Cancer and Other Malignant Tumors of \	K	ŀ		1					1		ļ
Other Organs or of Organs not Specified		· · · · · ·		١	••••	١	١		•		
Conital Ormana organisal	6				١		ļ .				 .
Ancer and Other Malignant Tumors of Other Organs or of Organs not Specified Other Tumors (Tumors of the Female) Genital Organs excepted) Acute Articular Rheumatism	7	١					ļ	1		9	
Chronic Rheumatism and Gout	8				ï	I	1				· <u>···</u>
Scurvy	9	. 1	1								٠
Diabetes	0				1	٠	1			1	2
Exophthalmic Goltre	1	•••••		ļ	•••			·;	1	1	
Amenda Chlanosia	4		1	2		ļ		1	•••	•••••	
Other General Diseases	5	ili		1.				1.		••••	١
Alcoholism (Acute or Chronic)	6			I	l		2	ī	6	6	1 8
Encephalitis	Ю			ļ				l			ł
Simple Menindiia	1 :	15	18			2	8	ļ	1		1
muhié weninging	<u> </u>	7	2	4		•••	١		ļ	•••••	1
Including Cerebro-spinal Fever		.		ļ	1		١	[١	ļ	1
Anemia, Chorons Other General Diseases. Alcoholism (Acute or Chronic)		6	1	2	2	ï	8	l ï	7	2	16
Including Cerebro-spinal Fever	4		1 -	١-	٠	١	١٠	١		ļ	
ncluding Cerebro-spinal Fever. 61 Locomotor Ataxia. Other Diseases of the Spinal Cord. 62 Cerebral Hæmorrhage, Apoplexy. 63 Softening of the Brain. 64	4							1			1
Including Cerebro-spinal Fever	5					١	ļ			ļ	
Including Cerebro-spinal Fever	5 6 7								:::		
Cerebral Hæmorrhage, Apoplexy	4 5 6 7							2		2	ij
ncluding Cerebro-spinal Fever	4 5 6 8 	1 2	1			ï	2	2	ï	2]

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER $31,\ 1910.$

_	A (GE P	ERIO	D8.			SE		COLOR.	·	-		_	N	ATI	VI	TY.		_	-		===	CC	SOCI.	AL.	÷
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	reland.	L I Italy.	Scotland.	Hungary.	Sweden.	Russia.	Holland.	Other foreign.	Not stated.	Married.	Single,	Widowed.	Not stated.
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6	7	6	8	·····			•••••	84		14	2		5	5	2	,		1	3	***	2		16	1	17	***
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TABLE 24.-TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES, THE YEAR ENDING

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DEATHS IN JERSEY CITY.	Under one month.	Under 1 year, "not in- cluding under 1 mo."	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.
Chorea				_	-		اا	_	 ::		-
Neuralgia and Neuritis		ļ				•••	ĩ	•••	1		٠
Pericarditia 77	3	 2 1	1	·;;		•••	٠ï	•••		1	
Acute Endocarditis	ĭ	ĩ	2 2 2 	8	10	7	8	5	7	1 10	13
Organic Diseases of the Heart79	8		2	6	9	4	6	12	18	15	21
Diseases of the Arteries, Atheroma, Aneurysm, etc81		2	i			•••				1	1
Diseases of the Arteries, Atheroma, Aneurysm, etc81 Embolism and Thrombosis											
Diseases of the Veins (Varices, Hæmorrholds, Bases of the Lymphatic System (Lymphangitis, etc.) 84 Diseases of the Lymphatic System (Lymphangitis, etc.) 84 Loute Bronchitis. 89					 						1
Diseases of the Lymphatic System (Lymphangitis, etc.) 84		 .		l	١				1		١
Diseases of the Larynx87	2	,1	4							1	1
infonic Bronchius SMD	3 2	13	8			1		1	1		
Broncho-Pneumonia	10	56	47	6	8	ï	1 5 1	2	2	4	2
Pneumonia92	2	81	45	7	5	6	5	6	19	27	20
Pulmonary Congestion, Pulmonary Apoplexy93	<u>.</u>	8	1	1	7	•••	1		3	4	2
Pelurisy 93 Pulmonary Congestion, Pulmonary Apoplexy 94 Asngrene of the Lung 95 Asthma 96							11	!	1		ļ
Asthma96		1			•••				1	•••••	
Stime 97	•••••	1			 2					•••••	7
(Tuberculosis excepted)	•••••		2		2	•••	-	3		5	′
Diseases of the Pharynx	•••••	••••	3		1	•••		· į	ï		ï
Other Diseases of the Stomach (Cancer excepted)103	9	18	5		2 		1		î	3	ļ
103	25	288	69	<u></u>		•••				•••••	
Appendicitis and Typhlitis				8	5	·.;	2	2 3 2	2	2	3
Iernias, Intestinal Obstructions109	1	3	1		2	1	,	0	i	2	3 2
other Diseases of the Intestines110	2	4			•••	•••	1		1]
Other Diseases of the Liver	i	2	1					1	8	2	Q
Diseases of the Spleen											1
imple Perionius (Non-Puerperal)	•••••	•••••		1	•••	•••		••• [3	
and Tuberculosis excepted)	•••••	•••••			•••	•••				1	٠
cute Nephritis	1	1	3	2	1	1	8	7	4	12	9
other Diseases of the Kidneys and Aduexa 122	1		1	2	4	2	О	10	10	11	
Calculi of the Urinary Passages123							1]	1	1	1
Diseases of the Bladder	2	•••••	1		•••			1		•	•••
Diseases of the Prostate							***	Z			
Yon-Venereal Diseases of the Male Genital Organs127	1									1	
Iterine Hæmorrhage (Non-Puerperal)		•••••			•••			•••	•••		•••
Other Diseases of the Uterus							ï		ï	2	
100 100					•••			1		1	
Other Diseases of the Uterus 130 'ysts and Other Tumors of the Ovary 131 'alpingitis and Other Diseases of the Female Genital Organs 132 'ccidents of Pregnancy 134 'uerperal Hæmorrhage 135 'ther Accidents of Labor 136 'uerperal Septichæmia 137 'uerperal Albuminuria and Convulsions 138 'ollowing Childbirth (Not otherwise defined) 140 'angrene 142						ا		1	1	2	•
ccidents of Pregnancy134]							4	8	4	1
uerperal Hæmorrhage135			·····;			•••		1	2		
Puerneral Sentichamia 137						2	5	7	2	i	•••
uerperal Albuminuria and Convulsions138							2	i		î	
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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER 31, 1910—Continued.

	AG	E PI	ERIO	08.			SE	K.	COLOR.					N/	TI	VIT	ry.						SOCIA		
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Elghty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Holland	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 24.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,
THE YEAR ENDING

							101				
DEATHS IN JERSEY CITY.	Under one month.	Under 1 year, "not in- cluding under 1 mo."	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.
Acute Abscess. 144 Other Diseases of the Skin and Annexa. 145 Diseases of the Bones (Tuberculosis excepted). 146 Diseases of the Bones (Tuberculosis and 147 Rheumatism excepted). 147 Congenital Malformations (Stillbirths not included). 150 Congenital Debility, Icterus and Scierems. 151 Other Diseases Peculiar to Early Infancy. 158 Seniity 154		1			_	_	1	1			
Other Diseases of the Skin and Annexa145			1								ï
Diseases of the Bones (Tuberculosis excepted)146				ï							
Diseases of the Bones (Tuberculosis and		1		-	-		1				1
Rheumatism excepted)			•••••		•••	•••		••••]	•••		
Congenital Malformations (Stillbirths not included)150	'4	·	1	1							
Congenital Debility, Icterus and Scierema151	190	21	1		i						1
Other Diseases Peculiar to Early Infancy152	17	19									•••] ••
Senility154										•••••	
Suicide by Poison 155 Suicide by Asphyxia 156 Suicide by Hanging or Strangulation 157 Suicide by Drowning 58						8	8	4	5	4	2
Suicide by Asphyxia156						1		1	1	1	3
Suicide by Hanging or Strangulation157									2		
Suicide by Drowning158											'
Suicide by Firearma159							1	1	8	1	!
Suicide by Cutting or Piercing Instruments160									2	•••••	•••
Suicide by Jumping from a High Place, 161	; -				•••						
Suicide by Crushing162	¦					•••				•••••	1'
Other Acute Poisonings165			1	••••	•••	1	8		•	•••••	1,
Conflagration166		1 1			1	2		•••	;	•••••	
Burns (Connagration excepted)167		8	18	5	1	•••	1	•••			Z .
Absorption of Deleterious Gases (Con-)	1	l		!	اا		اا		1	1	2'
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Transportation by Place and 120		1 1		•••	3	1		•••	0	9	Ο,
Transparies by Cutting or Dissolve Instruments 171			•••••	•••	,	1		•••	•••	••••	
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Transportion by Washings 174	•••••		1	1	1	•	Z	•	0	J	١٠ ١
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Electricity (Lightning excepted)									2		
Homicide by Firearms 182		l	l		l	1		2			1
Homicide by Cutting or Piercing Instruments		l			I		i				ī.
Homicide by Other Means						i				i	1
Salicide by Hanging or Strangulation									1		
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Total deaths, 4,407. Death-rate, 16.46.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER 31, 1910—Continued.

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TABLE 25.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,
THE YEAR ENDING

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DEATHS IN KEARNY.	Under one month.	Under 1 year, "not in- cluding under 1 mo."	One to five.	Five to ten.	Ten to fifteen.	l'Afteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.
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the Female Genital Organs.	•••••				•••	•••				1	١
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imple Meningitis		1	4								Ľ
ncluding Cerebro-spinal Fever61 A		1									I
ther Diseases of the Spinal Cord63			· • • • • • • • • • • • • • • • • • • •		٠			اا			١
erebral Hæmorrhage, Apoplexy64	į	•••••		•••			•••			••••	1
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onvulsions of Infants71	: 2			 	١			i			١.,
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Cute Endocarditis78		1	1	,·••	٠.;	1		. 8		1	1:
ngine Pectoris 80	••••			¦	4		٠,	1 1			1
piseases of the Arteries, Atheroma, Anguryam, etc 81				l:::	•••						1.
diseases of the Lymphatic System (Lymphangitis, etc.), 84		1			١	١					
Emorrhage; Other Diseases of the Circulatory	1	,			1			1		ŀ	1
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leurisy	••••		·	١			1	,	1		٠;
ulmonary Congestion, Pulmonary Apoplexy94	• • • • • • • • • • • • • • • • • • • •						·	٠	١.	1	٠ -
(Tuber Diseases of the Kespiratory System 98	i		ļ	i		ļ		اا			.
Clear of the Stomach 102				1	1.		1	J. J	L	1	
ther Diseases of the Stomach (Cancer excepted)103		.! i	1	1	1		•••				i.
Diarrhœa and Enteritis (under 2 years)		.] 7		ļ		į			ļ		.[.
larrhœa and Enteritis (2 years and over)105			į		ļ		ļ				٠,
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in the statistical divisions of the state of new jersey, for december 31, 1910.

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Fifty to afty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Elghty to ninety.	Over ninety.	Not stated.	Male.	Female	Number of decedents "color black" desig- nated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Russia.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 25.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,

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DEATHS IN KEARNY.	Under one month.	Under 1 year, "not in- cluding under 1 mo."	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	
Salpingitis and Other Diseases of the Female } 132									_			
Salpingitis and Other Diseases of the Female Genital Organs. 132 Accidents of Pregnancy. 134 Puerperal Septichemia. 137		ļ	l							1	'	
Puerperal Septichæmia137								1		••••	·-	
Gangrene 142		·			•••	•••		•••	•••	•••••	,	•
Diseases of the Bones (Tuberculosis and Rheu-	ļ											•
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Suicide by Poison			•••••		•••	ï	•••	•••	•••			i
Accidental Drowning	4				ï	î			ï			
Traumatism by Other Crushing (Vehicles, }						1	1		1	•••••		1
Traumatism by Other Crushing (Vehicles, 178 Railroads, Landalides, etc.)							-	1			-	

Total deaths, 276. Death-rate, 14.79.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER 31, 1910—Continued.

Fifty to fifty-five Fifty to fifty-five Fifty to fifty-five Fifty-five to sixty. Fifty-five to sixty. Fifty-five to sixty. Fifty-five to sixty. Fifty-five to sixty. Fifty-five to sixty. Fifty-five to sixty. Fifty-five to sixty. Fifty-five to sixty. Fifty-five to sixty. Fifty-five five five five five five five five		SOCIA NDIT							ΓY.	VIT	TI	NA	_				R.	corc	X.	SE)6.	RIO	E PI	▲G	
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TABLE 26.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES.

THE YEAR ENDING

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DEATHS IN LAMBERTVILLE.	Under 1 month.	Under 1 year, "not in- cluding under 1 mo."	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.
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Crysinelas 18				١			•••			•••••	
Suberculosis of the Lungs				٠		1				2	'n
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the Stomach, Liver		ł			•••	•••	••••	•••	l	•••••	•••
Cancer and Other Malignant Tumors of)		i		1			1		(. ∤
the Peritongum, Intestines, Rectum	ļ	···· ·		•••	ا ••••	••••	•••	•		•••••	!•••
lancer and Other Malignant Tumors of	!	l	ł	1		1		ł	1 1	1	1 1
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lancer and Other Malignant Tumors of)	1	I	ļ				1	1	1 . 1		1 :
Other Organs or of Organs not Speci 45		ļ									١١
fled)	1	ł							1	ĺ	! !
Chronic Rheumatism and Gout48				ļ							!
Cuberculosis of the Lungs	٠	1	ļ	ļ							
Paralysis Without Specified Cause	·····	·····					•••				١!
Architecture	•••	1				•••			l	•••••	•••
cute Endocarditis78		·			•••		•••	•••]		•••
organic Diseases of the Heart79	•••••	`		1	•••	••••	•••				••••
Ingina Pectoris 80		·····		•••	••••	••••	••••			•••••	;!
Acute Bronchitis89	1	·····	;	•••	•••	•••	••••				!!
neumonia92	•••••	2		•••	; ••••	••••	¦ • • •	٠		•••••	
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Acute Bronchitis. 89 Pneumonis 92 Pleurisy 93 Astima 96 Pigraph 96 Polarrhees and Enteritis (under 2 years) 104 Pleurias 104 Pleurias 1104 Ple	······		,		٠	•••	٠	••••		•••••	•••
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Proumation by Fall 172	•••••	ļ		١		••••		,•••		•••••	
	*****		*****	1		***					•••

Total deaths, 57. Death-rate, 12.24.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER 31, 1910.

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Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Russia.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 27.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES, THE YEAR ENDING

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DEATHS IN LONG BRANCH.	Under one month.	Under 1 year, "not in- cluding under 1 mo."	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	
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ophtheria and Croup9		1	4		•••	•••	•••	••••				٠
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uberculosis of the Lungs28			1	ï	ï	2	4		2	1	8	š
uberculous Meningitis30		1			•••	1				1		. 1
bdominal Tuberculosis	1	*****	•••••	1	1			•••	•••	•	1	Ĺ
uberculosis of Other Organs	••••		•••••		1	•••	••••	•••	•••			٠
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ddlson's Disease59	•••••				•••	•••		•••		1		•
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lcoholism (Acute or Chronic)	1			ï							1	:
erebral Hæmorrhage, Apoplexy64										1	1	Ĺ
aralysis Without Specified Cause66								···	•••			•
ther Forms of Mental Alienation				•••				1		•••••	l-ï	i
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ngina Pectoris80	1	l				I	I				١	•
Diseases of the Arteries, Atheroma, Aneurysm, etc81												
ncluding Cerebro-spinal Fever. 61 A	ļ		·· ·· <u>·</u>		1	١			•••			•
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ther Diseases of the Respiratory System \			1	1	ľ	Ľ	Ľ	L		1	1	
(Tuberculosis excepted)]			١	١		1	٠,	1"	•
viner Diseases of the Stomach (Cancer excepted)103	;	1,2		-	[···					•••••	-	••
hulmonary Congestion, Pulmonary Apoplexy	l '						1		-		1:	•
ppendicitis and Typhlitis108				i	1		2					
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in the statistical divisions of the state of new jersey, for december $31,\ 1910.$

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TABLE 27.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES.

THE YEAR ENDING

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DEATHS IN LONG BRANCH.	Under one month.	Under 1 year, "not in-	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-flve.	Twenty-five to thirty.	Thirty-five to forty.	Forty to forty-five. Forty-five to fifty.
Uterine Tumor (Non-Cancerous) 129 Cysts and Other Tumors of the Ovary 131	,									1 1
Salpingitis and Other Diseases of the Female 189 Genital Organs 135 Puerperal Hæmorrhage 135 Puerperal Albuminuria and Convulsions 138									ι¦	1,
Puerperal Hæmorrhage			; 	ļ			1		.	
Puerperal Albuminuria and Convulsions				···	•••	•••]	j		
Following Childbirth (not Otherwise Defined)			;		;					
Gangrene	•••••					••••	•••		•,	ļ
Congenital Debility, Icterus and Scierema	5	3							.	
Other Diseases Peculiar to Early Infancy		1	·		•••	•••	•••			• • • • • • • • • • • • • • • • • • • •
Senility				1			اا			
Conflagration			1	1	,···	•	•••		-	
Absorption of Deleterious Gases (Conflagration 188				· .		•••		7		
excepted)	ļ	1 *			•••	•••	1			
Accidental Drowning 169 Traumatism by Fall 179							,	1		
Accidental Drowning Traumatism by Fall 179 Traumatism by Other Crushing (Vehicles, Rail- road, Landslides, etc.) 175 Effects of Heat 179 Electricity (Lightning excepted) 181 Homeledde by Finestres						•••	4	8	1	
Effects of Heat	· ·				¦			- <u>-</u> - -	· · ···	·¦•
Homicide by Firearms 188 Cause of Death not Specified or Ill-defined 189	•	1			•••	•••				ï
Cause of Death not Specified or Ill-defined189	1	. 2			٠		١ا		.i	<u> </u>

Total deaths, 292. Death-rate, 21.96.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER 31, 1910—Continued.

	A (E P	ER IO	D8.			82	x.	COLOR.					NA	TI	V I 7	r¥.					. i		SOCI.		_
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	8weden.	Kussia.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 28.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,

				GE	P	ER:	OI	16.			
DEATHS IN MILLVILLE.	Under one month.	Under 1 year "not in- cluding under 1 mo."	One to five.	Five to ten.	Ten to filteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.
yphoid Fever1									1		-
Thooping Cough				2						••••	
finenza10							•••				-
ysentery14											I
rysipelas18	ļ										
aberculosis of the Lungs	•••••				1	1	1			3	1
nherenlosis of Other Organs 34	•••••		•••••	1				:::		•••••	
isseminated Tuberculosis		ï									1
7philis		1			•••					••••	
Incer and Other Malignant Tumors of the	 	1							1	1	١
ysentery. 14 rysipelas. 18 loberculosis of the Lungs 28 bdominal Tuberculosis. 31 uberculosis of Other Organs. 34 isseminated Tuberculosis. 35 rphilis. 37 ancer and Other Malignant Tumors of the 31 Stomach, Liver. 36 ancer and Other Malignant Tumors of the 42 Female Genital Organs. 42 ancer and Other Malignant Tumors of the 43 ancer and Other Malignant Tumors of the 44 ancer and Other Malignant Tumors of the	١.]		Н	ĺ				. 1		
Female Genital Organs	•••••	•••••			•••	•••	•••	••••		•••••	
nncer and Other Malignant Tumors of the Breast.								1			l
Breast					'''		•••			•••••	
euchæmia			•••••		•••	ï	•••			•••••	
næmia, chlorosis54					ï					•••	1
lcoholism (Acute or Chronic)56					ļ						
mple Meningitis61		1			٠		•••	•••			ļ
erebrai Hemorrhage, apopiexy		•••••			۱		•••			•••••	
euchemia				-	I						-
eneral Paralysis of the Insane67						ļ					
ther Forms of Mental Alienation68		ļ			ļ	ļ			•••	•••••	·
onto Endocertitis		1		1						•••••	
ther forms of mental Alenation on visions of Infants	1										1 ***
cute Bronchitis89	·	1	1			ļ					.
roncho-Pneumonia91		1]	•••		٠	•••				· ···
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sthma96						l:::					1::
ther Diseases of the Respiratory System,)											1
(Tuberculosis excepted)					•	٠		•••	•••		
ther Diseases of the Stomach (Cancer excepted) 108			1		٠			•••			• ••
sthma		J	1	1	:::	l:::	l:::	•••			i.
ernias, Intestinal Obstructions109	·	1			\						1
ther Diseases of the Liver		· · · · ·			٠-		٠		!		٠[٠.
ther Diseases of the Liver						···	ļ				1
right's Disease 120						ï		•••			1
alculi of the Urinary Passages123						ļ					.]
iseases of the Prostate126						١	ļ	•••	٠		<u>.l</u>
Other Diseases of the Uterus	'			·			-:	•••	···	1	۱¦۰۰
nerneral Sentichemia 137					ļ	١	*	•••		·····i	i ''
ollowing Childbirth (Not otherwise defined)140	·				I	ļ	ï				
angrene149	·····	J	ļ	\ 	ļ						.
ongenital Debility, Icterus and Scierema	5	1		···		1					٠į٠٠
niler Diseases recuils to early initiney15x			į	1			-				
uicide by Hanging or Strangulation157	,					1	I				
ccidental Drowning)			1			1		1	1	ı
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Taumatism by Pall	1	1									
ther Diseases of the Liver			ļ	1	ļ	ļ	ļ				.

Total deaths, 149. Death-rate, 11.97.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER 31, 1910.

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Fifty to fifty-five.	Fifty-five to staty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.		Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	1	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Russia.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 29.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,
THE YEAR ENDING

				LG I	E P	ER	101)6.			
DEATHS IN MONTCLAIR.	nder one mor	Under 1 year, "not in-	One to five.	Mye to ten.	Ten to fifteen.	Fifteen to twenty	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Porty to forty-flya.
deasles	;		4	- 	_	-	-		-		-
carlet Fever.	<u> </u>		<u>.</u>		1	1	1	•••	١		j
Nubtharia and Croup		2	8	١			•••	•••		•••••	1-
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urulent Infection and Septichemia	5		1	ï		I					١
Tuberculosis of the Lungs	3				2	5	4	6	8	1	1
cute Miliary Tuberculosis	ે		1	ļ		٠	•••	•••		•••••	١
Uberchious Meningius	?	1	8	•••	1		•••	1	•••		١.,
Tuberculosis of Other Organs 3	i	•••••	. 1	17		٠	•••	•••		•••••	-
Disseminated Tuberculosis 84	5		:		I	I					1"
Cancer and Other Malignant Tumors of t							١,	9	,	!	
the Stomach, Liver	· · · · · · ·	•••••	•••••		١	٠	1	-	ا " ا		١.
the Peritengum Intestines Poetum	١		·	 	١	l				1	
ancer and Other Malignant Tumors of						l		_			١.
the Female Genital ()rgans	B		••••			[•••	1			1
hronic Rheumatism and Gout4	3		٠		٠'	١			!		١.,
Dia betes 50)				;	١	1		!		١.,
ther General Diseases	<u> </u>	ļ								•••••	ŀ
hronic Leed Poisoning	3	•••••	•••••						٠	•••••	ſ
ncephalitis.				ï	• • • •				٠		1
imple Meningitis6	1		1		1						1.
erebral Hæmorrhage, Apoplexy6	L		•			ļ			. .	1	ļ.,
aralysis Without Specified Cause6	3		ļ		•••	٠	•••		•••		٠.
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cute Endocarditis		-						ï	2	1	1
organic Diseases of the Heart	Š						1		ī	-	
ngina Pectoris8)			ļ		٠			!	١	١.
iseases of the Arteries, Atheroma, Aneurysm, etc8	L	·····	••••		•	•••		•••	, '	· • • • • • • • • • • • • • • • • • • •	ŀ
Diseases of the Lymphatic System (Lymphangitis, etc.) 5-	<u>.</u>	į		1	···		•••	•••	٠	•••••	ŀ
cute Bronchitis.	1			i				'	1	•••••	1:
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ther Liseases of the Respiratory System		1	•••••	1		١		••••	!	l	Ι.
(Tuberculosis excepted)	5	į		·				•••			ŀ
ther Diseases of the Stomach (Cancer excepted) 103	3 1	8				•			ļ	١	
narrnœa and Enteritis (under 2 years)10	2	19	4	ļ		¦•••	•••				ŀŀ
varruces and Enterius (2 years and over)	Ž		•••••		١	1";		•••	ļ		١.
Jernias. Intestinal Obstructions	j		1				ï				1.
irrhosis of the Liver11	3			١	ļ	ļ	١				
imple Peritonitis (Nonpuerperal)11	<u> </u>			٠	[1			١.
cute Nephritis11			· <u>-</u>	,		1					
origin a Discass of the Kidness and Appear		2	1	•••		1	•••		1	1	4.
Diseases of the Bladder 12.		1 1		•••							ľ
Diseases of the Prostate19	3					[
Jterine Tumor (Non-Cancerous)19)		·	ļ		·					1.
uerperal Albuminuria and Convulsions	3	1		,	 			1		ļ	١.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER 31, 1910.

	AG	BE PI	ERIOI	D6,			SE	x.	COLOR.					N/	TI	VII	Y.						œ	BOCI.	AL ION.	_
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Kueda.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 29.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES.

THE YEAR ENDING

				_		_	_		_		_	=
				AG I	E P	ER	101	06.		-		
DEATHS IN MONTCLAIR.	Under one month.	Under 1 year, "not in-	One to five.	Mye to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
Other Diseases Peculiar to Early Infancy152						_	_		_		-;	_
Lack of Care		· i										•• •••
Senility154		l	l	١!								
Suicide by Poison 155						1			1			
Suicide by Firearms				1					i			
Suicide by Firearms		1							i			-
Other Acute Poisonings											1	
Burns (Confiagration excepted)167		1	2		i				1			
Traumatism by Firearms. 170		1	l					1			1	
Traumatism by Cutting or Piercing Instruments 171						1					1	
Burns (Configration excepted)		1						1	1		1	1
Effects of Heat		7	ļ									
Cause of Death not Specified or Ill-defined189	1	4	ļ								1	١

Total deaths, 824. Death-rate, 15.03.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER 31, 1910—Continued.

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Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Hootland.	Hungary.	Bweden.	Russia.	Holland	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 30.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,

				GE.	PE	RI	OD6	L		•
DEATHS IN MORRISTOWN.	Under one month.	Under 1 year, "not in-	One to five.	Five to ten.	Ten to niteen.	Fifteen to twenty.	Twenty to twenty-nve.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.
Typhoid Fever						!	81.	1	2	1
Malaria4				- 1	1	- 1	1			:
M. easles6		1					l.	'		٠
Scarlet Fever				2		1	.		·	·
Whooping Cough	•	1	1				∤.	••••••		
Diphtheria and Croup	•••••	•••••	7	0			-	••;•••	•••••	
Measies				4	•••	•••	-	••∤•••		· - ··
Rrysinelss 18			•••••	!		•••;	.		••••	
Purulent Infection and Septichæmia20		1				1	I.	ï		
l'etanus										
Tuberculosis of the Lungs						2	6	ຮ່ 1	. 2	'
Tuberculous Meningitis			1				··· j •		: 1	1 *** (**
Abdominal Tuberculosis31	••••	ļ	1		•••	····	1-		1	
Stomach Times Manguant Tumors of the	 			اا	[l	. 1	i'
Cancer and Other Malignant Tumors of the	i			!	- 1		. i			1 ;
Peritoneum Intestines Rectum					•••				·!	1 1
Cancer and Other Malignant Tumors of the	İ				- 1	. 1		1	1	1
Influenza	••••		•••••					··· ; •··	••••	'
Cancer and Other Malignant Tumors of the \	1	1	1	li		. 1	. !		1	1 1:
Breast	1	····		ll				٠٠١		1 -1-
Breast	J	· · · · · ·	١		•••	•••;				ji
Addison's Disease 82			1			•••		•••	' '	
Anæmia Chlorosis	1									
Alcoholism (Acute or Chronic)56			I)				. 2 .
Simple Meningitis61		2	4	l				1	.,!.	
Including Cerebro-spinal Fever		·	1	i		•••		•••;•••	· i	-
Other Diseases of the Spinal Cord	·	·¦·····	· · · · · ·	1	•••		[····	:	:∤	· •;; •
Softening of the Brain			j		•••	···· '	· · · · · ·	2	· ····	1 4
Paralysis Without Specified Cause				1				•••		
General Paralysis of the Insane 67	1							:		
Acute Endocarditis78	J	·			1					j 1 .
Organic Diseases of the Heart 79	·····		·	. 1			1	1	l	-11-
Angina Pectoris	'	•	· • • • • • •	••••	•••	••••		•••¦••		- -
Ummorrhage: Other Diseases of the Circulatory System 28	•••••	• • • • • • • • • • • • • • • • • • • •			•••		••••	•••;••	- !	
Diseases of the Larvny 82		1	i						٠, ٠	· · · · · ·
Acute Bronchitis86		.)	1							
Chronic Bronchitis90				i			١١			
Broncho-Pueumonia91		. 3	2 4	l	١		11	'		
Pneumonia9	1 3	1 1	l	. 1	1		4	2	• ' • '	2,
Pulmonary Congestion, Pulmonary Apoplexy94		•	• • • • • •	• •••	٠	•••				· · · · · · ·
Other Diseases of the Stomach (Cancer excepted) 105	: :	i	• • • • • • • • • • • • • • • • • • • •	·¦···	•••		!!		•	I
Diarrhos and Enteritis (under 2 years)104	il		4	i				•••	• • • • • •	
Diarrhœa and Enteritis (2 years and over)100	۶j		. i	i						
Appendicitis and Typhlitis108	<u> </u>			.1	1	ļ	2	1		
Hernias, Intestinal Obstructions109	·····	- !	• • • • • •	٠,٠٠٠		١	¹		1	1
Other Diseases of the Intestines11	·····			٠		ļ	i,			
CIFFEOSIS OF the Liver	·····		·i	٠			,,			••••
Rright's Disease 126			-	1	1	1			i	••••••
Diseases of the Prostate	3				1	1			•	
			- •••••	-I		,	1			
Uterine Tumor (Non-Cancerous)129		. !								
Acute Articular Rheumatism			.,							

In the statistical divisions of the state of new jersey, for december 31, 1910.

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TABLE 30,-TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES.

THE YEAR ENDING

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DEATHS IN MORRISTOWN.	Under one month.	Under 1 year, "not in- cluding under 1 mo."	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-nve.
Priemeral Hemorrhage 185	_	-		-	_	7	_		_	;	
Puerperal Hæmorrhage										1	
Puerperal Albuminuria and Convulsions				ļ		ì					
Gangrene149	١										•••; •••
		ļ <u>.</u>							•		•••, •••
Congenital Malformations (Stillibirths not included)150		8		ļ	٠	•••	•••			!	•••, •••
Congenital Malformations (Stillbirths not included). 186 Congenital Debility, Icterus and Scierema	12	Z			٠					•••••	
Sentity 184			i	•••		•••	•••			•••••	
Suicide by Firearms. 159			1			ï		!			
Burns (Conflagration excepted)167			1								
Traumatism by Cutting or Piercing Instruments171			1								1
Traumatism by Fall	·····			1	١					2	1
Traumatism in Mines and Quarries	•				•••		1		•••	•••••	
Other Diseases Peculiar to Early Infancy 155 Senility 156 Suicide by Firearms 155 Burns (Conflagration excepted) 167 Traumatism by Cutting or Piercing Instruments 177 Traumatism by Fall 177 Traumatism in Mines and Quarries 177 Traumatism by Other Crushing (Vehicles, Rail- road, Landslides, etc.) 177 Effects of Heat 177 Cother External Violence 178	·		1		1				1	1	1
Effects of Heat.	l		i	l	l	ĺ	. 1				1
Other External Violence				1	l:::						i
Other External Violence		. 7		l	١	١					

Total deaths, 296. Death-rate, 23.67.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER 31, 1910-Continued.

Fifty to fifty.five. Fifty to fifty.five. Fifty to fifty.five. Fifty to ninety. Fifty for ninety		AG	E PI	ERIO!	D8.			82	x.	COLOR.					N	LTI	VI	Γ¥.						_α	BOCI.		
8 7 2 15 15 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 3 1 1 1 1 3 4 1 2 1 1 1 1 1 1 1 1 1 1	Fifty to fifty-five.	Fifty-five to maty.	3	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	de de de de de de de de de de de de de d	United States.	England.			Ireland.	Italy.	Bootland.	Hungary.	Sweden.	Ruesia.	Holland.	Other foreign.	Not stated.	Married.	Bingle.	Widowed.	Not stated
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TABLE 31.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,

						A	3 E	PE	RIOL	18.			_
DEATHS IN NEWARK.	-	Under one month.	Under 1 year, "not in- cluding under 1 mo."	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	
yphoid Fever	1			1	2	8	5	4	11	5	3	-	5
falariafeasles	4	•••	15	1 80	ï	•••	1	•••	•••••		2	••••	•
carlet Fever	7	ï	1	17	8	2	8	2					
Vhooping Cough	8	4	82 12	28	1 25	ï	•••	•••					•
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ther Epidemic Diseases	19		ĺí										
ysentery rysipelas other Epidemic Diseases. urulent Infection and Septichemia. Lables.	90	•••			2	2	1		•••••			·	
etanus	24	ï		ï	2	1	•••	•••	•••••		•••••		•
uberculosis of the Lungs	28		6	7	6	9	87	88	101	96	87	101	Ĺ;
cute Miliary Tuberculosis	29	•••	1 14	86		4		4	8		····i	•••••	•1
bdominal Tuberculosis	81	ï	2	7			2 2	1	i		i	1	i
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disseminated Tuberculosis	35	•••	1	2	2	1	2	1	····i				
lickets	36		2										
yphilis	87	8	3		1	•••	•••	1	1			1	ı.
ancer and Other Malignant Tumors of the Buccal Cavity	39	••••		•••		•••			•••••	j	•••••	ļ	٠!
ancer and Other Malignant Tumors of the Stomach, Liver	40	!	! .	1			1		1	8	4	9	9
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Peritonseum, Intestines, Rectum	······ • • i	•••			•••	•••	1	•••	••••	1	1	3	2
Peritonseum, Intestines, Rectum	42					1			1	4	8	11	ı,
ancer and Other Malignant Tumors of the Breast	48						1		1	1		١,	8
Breast		•••			•••	•••	•		•	. *	••••	١.	,
Skin	44			1		•••	•••						•
Sreast. ancer and Other Malignant Tumors of the Skin ancer and Other Malignant Tumors of Other Organs or of Organs not Specified ther Tumors (Tumors of the Female Genital Organs excepted) cute Articular Rheumatism	45		1	١,			9	9		1 1	1	۱ ،	4
Other Organs or of Organs not Specified)		•					-				· -		
tal Organs excepted)	46	••••		•••	1	•••	•••	•••	•••••	1	•••••		•
cute Articular Rheumatism	47	••••		1	•••	•••	•••	•••	•••••			1	ł
CUTY			···i			•••	•••		•••••		*****		•
)iabetes	50	•••			1	1	1	1		, 1	1		2
xophthalmic Goitreddison's Disease	51 K2	•••	•••••		•••	•••	ï	•••	•••••		•••••	1 3	2
	201		1	1	ï			1			2	1	1
næmia, Chlorosis	54	 1	٠;		1	•••	1	1	•••••		•••••]	į
lcoholism (Acute or Chronic)	56					•••	•••	:::	4	7	8	1	į
nemia, Chlorosia ther General Diseases. lcoholism (Acute or Chronic). hronic Lead Poisoning ther Chronic Poisonings	57								•••••			¦••• •	
imple Meningitis	81	7	25	30		 2	ï		"i	2	2		ġ
ncluding Cerebro-spinal Fever	61 A		ű	2	2					[]	ī	ļ '	•
ocomotor Ataxia	68	•••				•••	•••		•••••		1	••••	•
then Discourse of the Onine! Cord										1			:
ther Diseases of the Spinal Corderebral Hæmorrhage, Apoplexy	63	4	,;	i		1	1	2	2	6	11	1:	
mple Meningitis. including Cerebro-spinal Fever. ocomotor Ataxis. ther Diseases of the Spinal Cord. erebral Hæmorrhage, Apoplexy. oftening of the Brain. aralysis Without Specified Cause.	64 65	4	1	1 1 		1	1		2	6	11	1	1

In the statistical divisions of the state of new jersey, for december $31,\ 1910.$

	AG	E PI	RIO	D8.		_	8E		COLOR.					NA	TI	VIT	Y.						co	SOCI. NDIT	AL ION.	_
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Elghty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Itlay.	Scotland.	Hungary.	8weden.	Russia.	Holland.	Other foreign.	: Not stated.	Married.	Single.	Widowed.	Not stated.
3	1	1	1				82	19		84	2		4	4	1		2	1	2		1		28 2		1	
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1				 			49	45	2	92	ï	:::					1			*	***		1	65 98 6		
		·····	i	;		•••	3	8	····	6				 2				•••		•••		•••	4	6		
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4	5	9	7		l		11	20		12	4		9	1		1	1		1	1	1		18	8	10	1
14	8	8	8					66	1	1	1		9	6	2	ì	2	1	2				48	6	l	
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35 1 8	32 4 1	98 4 6 3	85 5 4	29	. 1		175	168 168	14	16	7 20	Ι.	62	42	14	6	8	4	5		6	7	156	46	129	1 7
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TABLE 31.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,

							ю	-				
DEATHS IN NEWARK.	Under one month.	Under 1 year, "not in- cluding under 1 mo."	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Worter-Ave to After
Other Forms of Mental Alienation								1	1	<u> </u>		
Triple			1			•••		1	1	• •••	ļ	1
Convulsions (Non-Puerpersi)70		10	<u>-</u> 5		•••	•••		•••		•••••	·	1-
Chorea					ï					··· ·		1.
Other Diseases of the Nervous System74	1	18				1						٠.
Ulseases of the Kars		. 4							1	T	7	1-
Pericarditis	2	7 4	8	4	8	7	7	6	7	7	13	li
Organic Diseases of the Heart79	8	4	6	8	7	9	8	9	9	15	19	12
Angina Pectoris			•••••	•••		•••			.::	8		
Embolism and Thrombosis	•••••			•••	•••	•••			-	•••••		1
Diseases of the Veins (Varices. Hæmorrhoids, t					•			,			1	ľ
Phlebitis, etc.)	•••••			••••	***	***		*		•••••		ľ
phangitic etc \								1			ļ	١.
Hæmorrhage: Other Diseases of the Circu-								l i	ı		ĺ	ı
latory System	•••••					•••				••••		ŀ
Diseases of the Nasal Fosse	••••	····i	1		•••	•••		•••		٠٠٠٠٠		1
Diseases of the Thyreoid Body88						ï	1			î	1	١.
Acute Bronchitis	14	89	12			1				1	3	
Chronic Bronchitis	10	119	99	2		-;				2	3	
			52	11	6	10	14 3	18	28		104	ılo
Preumonia		2	6	2	1	1	3	1	1	2	1 2 2	1
Pulmonary (longestion, Pulmonary Apoplexy94	•••••	ļ <u>.</u>	2					1	4		2	
Pulmonary Emphysema 97		1							i			1.
Other Diseases of the Respiratory System (Tuber-	9	1	1		1			1	8		2	
culosis excepted)	-	1 -	-			•••		١.	٦	_	1	1
Diseases of the Pharynx 100	9	4	i		1					2		
Ulcer of the Stomach102	ļ <u>-</u>		1 -	1	1		1 1)	4	1	ı
Other Diseases of the Stomach (Cancer excepted)103	16		7	3	į	•••	1		1		1	4
Diarringa and Entertis (under 2 years)	24	274	6	8	٠	•••	ï		7	8	ï	il
Intestinal Parasites107			Ĭ							****	J	1.
Ulcer of the Stomach			1	1	6	7	2	5	1		8	
Hernias, intestinai Obstructions	1	3	1	•	1			·;;		2		i.
Other Diseases of the Intestines		l	⁻						•	8	4	ij
Other Diseases of the Liver118	1	2		l	١	١		2		2	1	ı¦
Simple Peritonitis (Non-Puerperal)117			1			1	1	' '		2	···	١
and Tuberculosis excepted)					٠	ļ	•••	1		•••••	-	ŀ
Other Diseases of the Liver		2	8		1	2	2	4	5	.4	5	
Bright's Disease of the Kidners and Anners 100	1	3	5	8	2	4	8	12	20	15	83	
Calculi of the Urinary Passages						.						•!
Diseases of the Bladder124										1		-!
Other Diseases of the Urethra, Urinary Abscess, etc125						 		;	•••			•
Diseases of the Prostate	_ا											ï
Non-Venereal Diseases of the Male (Jenital Ordana — 127												
and Tuberculosis excepted)	····-			ļ						1	1	i

in the statistical divisions of the state of new jersey, for december 31, 1910-Continued.

		E P	ERIO	D6.			SE	x.	COLOR.					N.	AT!	Vľ	ΓY.						œ	SOCI.	AL TION	
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	freland.	Italy.	Scotland.	Hungary.	Sweden.	Russia.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
19 27 2	1 17 26 4 2	1	1 2 44 60 3 17	16 19	1		4 4 4 20 1 2 5 3 113 157 10 29 1	3 2 2 21 2 11 152 152 13 	6 9	2 1 1 41 3 5 5 118 169 9 25	10924	 1 3 	1 1 30 59	4 1 	"i …	 1 2 	1 4 7 	 1			 5 3 2 1		3 3 1 2 3 114 142 10 21 1	1 2 1 41 1 2 4 2 49 78 1 5	3 1 1 1 70 93 4 16	1
1 1 2 1 1 2 2 1 1 2 2 1 1	25 25 1 6 3	1	11 7 17 42 3 12 2	6 2 7 12	2		1 1 4 4 21 137 240 19 20 14 3	1 5 2 52 19 142 165 15 24 8 1	7 2 10 13 3 1 1	2 1 5 1 77 26 244 257 24 21 6 2	1 2 1 1 8 1 2	 1	 1 5 6 7 32 3 6 5 7		2 1 8 35 1 1	 7 2 1	 3 3 2 4 1	 1 1 1 1 1 1	 2 10 2 1 1 1 		1 2 9 1 1 1 1	 1 1	1 1 2 1 6 18 18 145 14 19 13 2	1 5 1 71 16 233 185 15 10 1	19 11 28 75 5 15 8 1	
3 3 1 4 9 5 3	10 33 31 5 31	9 1 1 13 5	5 1 2 1 6 1	6	2		1 6 29 189 28 25 15 9 42 10 5	3 5 40 166 27 1 14 12 8 22 16 10	1 26 7	1 8 8 67 352 34 29 19 11 29 15 8	1 2	 2 	2 6 4 23 1	 1 6 1 1 4 5 6	1 1 1 1 	 1 1 1 	 2 1 1 1 1 3 3	1	 1 1 1 2 1 1				22 14 6 7 87 12 6	1 8 3 62 855 16 1 21 16 6 12 9 5	17 4 5 4 15 5 4	
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TABLE 31.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,
THE YEAR ENDING

			4	GI							
DEATHS IN NEWARK.	Under one month.	Under 1 year, "not including under 1 mo."	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five. Forty-five to fifty.
Salpingitis and Other Diseases of the Female	_	_	_	_	_	-	7	2		_	2
Genital Organs	•••••		-	١	•••	•••	•	•	i	•	• • • • • • • • • • • • • • • • • • • •
Accidents of Pregnancy134						1	1	2	3	2	••••
									2	3	
130 130								11			1
Puerperal Septichæmia137	•••••			١	•••	1	6	7	8	2	1
Puerperal Albuminuria and Convulsions138				١	•••		2	8	2	1	1
Following Childbirth (Not otherwise defined)140					•••	•••			1		1
Gangrene				١						1]
Acute Abscess144		ļ		١			!				1
Other Diseases of the Skin and Annexa145	1				1		'		1.	1	1 1
Diseases of the Bones (Tuberculosis excepted)146			1	ľ					1		1
Diseases of the Bones (Tuberculosis and											
rheumatism excepted)	•••••			٠	•••	•••	••••	•		•• •••	1
Congenital Malformations (Stillbirths not included)150	8	8	1	١		١				····	
rheumatism excepted)	245	21	1	١	١			:			
Other Diseases Peculiar to Early Infancy	48	15	2								
Lack of Care	1			١	١	١					٠
Senility				١		١	١ا				
Suicide by Poison		1					1	2	3	1	4 4
Senicide by Poison 1.55						١	۱i	ī		4	5 1
Suicide by Hanging or Strangulation157		1		1		1	i		;		Ĭ
Suicide by Drowning		1		ļ	I					1	i i
Suicide by Firearms						1	1	2	1		i
Suicide by Jumping from a High Place161						١					
Suicide by Crushing162						١		1	1		
Other Suicides. 163					!					1	
Other Acute Poisonings165			1				1		1		1. 1
Conflagration			1	i	١	4	6	9	2	1	2 1
Burns (Conflagration excepted)167			18	5			١	2	1	1	· 1 1
Absorption of Deleterious Gases (Con-1	٠,			1							
flagration excepted)	1	1			•••	•••	1	•	Ζ.	•••••	2
Accidental Drowning		!		5	3	` 1	2		1	3	1 :
Traumatism by Firearms170		1	1						•••	.	
Traumatism by Fall		2	4	٠	2	١	2	5	2.	3	4 3
Traumatism by Machines		ļ	ī	١	ļ	3		1	2	ĩ	1
Traumatism by Other Crushing (Vehicles,)				١,,				-	_	10	
Railroad, Landslides, etc.)		1	4	11	4	*	*	٠.	4	12	
Effects of Heat	·	. 5	2	2			1				2 :
Homicide by Firearms182			·	١	1	l	٠	2	1		1
Homicide by Cutting or Piercing Instruments 183		ļ		١	١	١	٠		1		
	- 2	1	1	1	1	1	1	•	- 1	1	
Homicide by Other Means	1										
Suicide by Jumping from a High Place	1			1	i					ĩ	1

Total deaths, 5,784. Death-rate, 16.65.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER 31, 1910-Continued.

	▲G	E PI	ERIO	D8.			8E.	x.	COLOR.					N	АT	I A I,	TY						cc	SOCI		<u> </u>
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungery.	Sweden.	Russia.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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••••	!					١	38 1 19	27		65	1	!		ļ			•••		•••	•••				65		
2		8 2 2 2	12 2	17	8		19	26	2	18	2		12	6	1	1	1	•••	3			1	7	5	83 5 1	
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4	1	6	8	8	¦		39 12	15	5 8 .1 1	2	3	,	8	9	1	2	· 2		٠	ļ	2	٠	27 5	15 6	. 12	<u>.</u> ,
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TABLE 32.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES, THE YEAR ENDING

			A	GE	PE	RIC	Ds.			
DEATHS IN NEW BRUNSWICK.	Under one month.	Under 1 year, "not in- cluding under 1 mo."	One to five.	Five to ten.	o liel	Twents	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.
yphoid Fever1	1				- ,- l	2	2 1	1		_
feasles6			1 3		!-					٠
as also Famon			1		- 1	- 1		1	l .	
ariet rever. Nooping Cough 8 iphtheria and Croup. 9 acluding Croup. 9 aftuenza 10 ysentery. 14	ļ	5	2	١٠	¦.	;		ļ		•••
iphtheria and Croup	······		2		٠.,	!	-	·	·	•••
ncluding Croup			. 1	••• j •	•• •			•••	•••••	. •••
nnuenzatu				····	1-		•	!		•••
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uberculosis of Other Organs34	1		·						I	
isseminated Tuberculosis35							. ' 1	١		!
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hronic Rheumatism and Gout 48	• • • • • • • • • • • • • • • • • • • •		•••••	·	·¦·	•••		• , • • •	··· ···	·;••
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Jeoholism (Acute or Chronic)			•••••		•••		i :	il"ï		1 4
imple Meningitis 61		2	3		1	ï.				
ncluding Cerebro-spinal Fever61 A		. 2		1		,	1		!	
ocomotor Ataxia69	3					1.		. :		١
ther Diseases of the Spinal Cord63	3	٠						٠.,		١.,
erebral Hæmorrhage, Apoplexy64		٠	, 1	1		.		-	····	
aralysis Without Specified Cause	····			1		•••]-		-		••
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iseases of the Arteries, Atheroma, Aneurysm, etc8								. 1		1
cute Bronchitis89)		. 1			1 •••• •	1	l !		
roncho-Pneumonia91	ا	. 8	1			.				١.,
Other Organs or of Organs not Specified	₿:	8	8	1	اا	.				1
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Diarrhœa and Enteritis (under 2 years)		8 40	18			\:				
iarrhea and Enteritis (2 years and over)	5			2		•••		. 1	11	1
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in the statistical divisions of the state of new jersey, for december $31,\ 1910.$

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Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Elghty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	l Italy.	Scotland.	Hungary.		Russia.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 32.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES, THE YEAR ENDING

Other Diseases of the Kidneys and Annexs 122				_	GE	-				•			_
Hernias Intestinal Obstructions. 109	DEATHS IN NEW BRUNSWICK.		year, "not in	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
Other Diseases of the Intestines.	Hernias, Intestinal Obstructions		1										
Cirrhosis of the Liver	Other Diseases of the Intestines	1			1				1	ا ۔۔۔ ا			
Simple Peritonitis (Non-Puerperal) 117	Cirrhosis of the Liver				l			ll					
Bright's Disease. 120	Other Diseases of the Liver 115											1	
Bright's Disease. 120	Simple Peritonius (Non-Puerperal)117					1		1					•••
Calculi of the Urinary Passages 193	Acute Nephritis119					•••					•••••	1	•••
Calculi of the Urinary Passages 193	Bright's Disease120	ļ			•••	•••			1		•••••	1	1
Diseases of the Prostates 130	Other Diseases of the Kidneys and Annexa 122			••••		•••	•••				· ••••	•••	•••
Diseases of the Prostates 130	Calculi of the Urinary Passages	·····				•••	•••		•••	اين	2		•••
Other Diseases of the Uterus. 130	Diseases of the Bladder124			••••		••	•••			2	•••••	•••	•••
1	Diseases of the Prostate				ł I		1	1	1			•••	•••
Congenital Maiformations Stillbirths not included 150 2 1 1 1 1 1 1 1 1 1	Orate and Other Transport of the Orace	•••••	•••••	•••••		••••	1		•••	•••	••••	•••	:
Congenital Maiformations Stillbirths not included 150 2 1 1 1 1 1 1 1 1 1	Locidents of Programmer 124	·····		•••••		•••	•••			•••	••••••	1	
Congenital Maiformations Stillbirths not included 150 2 1 1 1 1 1 1 1 1 1	Programa Cantichamic 127	•••••		•••••	•••		•••			···· Ì	. 1	••••	•••
Congenital Maiformations Stillbirths not included 150 2 1 1 1 1 1 1 1 1 1	Puerneral Albuminuria and Convulsions 132	•••••		•••••			-		•	•••	•••••	•••	
Acute Abscess													
Suicide by Poison	Acute Abscess 144			•••••						•••	•••••		•••
Sulcide by Poison 155	Congenital Malformations Stillbirths not included \ 150		<u>*</u>	••••	[]	•••	•			•••	•••••	•••	•
Suicide by Poison	Congenital Debility Icterus and Sclerems 151	ว์	9	•••••			•	••••]	•••••	•••	
Sulcide by Poison 155	Other Diseases Peculiar to Farly Infancy 152	l ~i	9	•••••			•••		1	••••	•••••		. ••••
Suicide by Poison	Lack of Care	i		•••••	١١		•••	•••			••••	••••	
Suicide by Poison 155	Senility154			•••••							*****		
Suicide by Firearms 159	Spiside by Delson 188												
Suicide by Cutting or Piercing Instruments. 160	Suicide by Firearms 159							11	1				i
Other Acute Poisonings 165 1 Conflagration 166 1 Buras (Conflagration excepted) 167 11 Accidental Drowning 189 1 Traumatism by Firearms 170 1 1 Traumatism by Fall 172 1 1 Traumatism by Other Crushing (Vehicles, Railroad, Landslides, etc.) 175 1 1 2 2 1 Excessive Cold 178 179 1	Suicide by Cuttting or Piercing Instruments 160					- 1	11		- 1			1	ł
Accidental Drowning	Other Acute Poisonings165	·			اا						1		
Accidental Drowning	Conflagration166		1		اا		!						
Accidental Drowning	Burns (Conflagration excepted)167					!			1		1		
Traumatism by Firearms 170 1 1 1 1 1 1 1 1 1													i
Traination by Other Crushing (Venicles, 175	Traumatism by Firearms					1				1		1	
Traination by Other Crushing (Venicles, 175	Traumatism by Fall172			1	1						•••••	١	1
Effects of Heat	Traumatism by Other Crushing (Vehicles,)			1	1		1	2		9	1	9	
Effects of Heat	Kaiiroad, Landslides, etc.)			•	•	•••	1	~		- ا	•	^ ا	
Other External Violence	Excessive Cold	•••••		•••••			•••	•••			•••••		•••
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m-venned urvanic interse	Ulner External Violence	1		•••••	;		•••		•••	•••	•••••	•••	•
Cause of Death Not Specified or Ill-defined	Course of Dooth Not Specified on Ill defined	••••••	ا ـِ	٠٠٠٠٠٠	••••		•••	•••!			•••••	•••	¦

Total deaths, 496. Death-rate, 21.21.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER 31, 1910—Continued.

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Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Russia.	Holland.	Other foreign.	Not stated,	Married.	Single.	Widowed.	Not stated.
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TABLE 33 .- TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES. THE YEAR ENDING

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DEATHS IN NORTH PLAINFIELD.	Under one month.	Under 1 year, "not in-	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Thirty to thirty five.	Thirty-five to forty.	Forty to forty-five.
Measles					ا ا	1				
Whooping Cough. Bysentery 14	3∤	. 1	2		اا					:
Dysentery	١					1				
Tuberculosis of the Lungs	šļ					1	1.			
Dysentery 12 Tuberculosis of the Lungs 22 Disseminated Tuberculosis 32 Cancer and Other Malignant Tumors of the Stomach Liver. 44 Cancer and Other Malignant Tumors of the Peritonseum Intestines, Rectum 4 Diabetes 56 Chee Liesaco of the Spinal Cord 3	5 !]				1		1
Cancer and Other Malignant Tumors of		1	Į	1				1	1	1 1
the Stomach, Liver		•••••		•••						!
Cancer and Other Malignant Tumors of t	1	1		L 1				- 1		l i
the Peritonseum, Intestines, Rectum	٠,		ļ		•••	•••	-	:: :::		
Diabetes):		 		١		١١.			
Other Diseases of the Spinal Cord63	3 '	.			١		ll.			
Cerebral Hæmorrhage, Apoplexy66	H		١		١		١١.		1	1
Other Forms of Mental Alienation68	31				١				J	
Diseases of the Ears	3:	. 1			l					
Other Forms of Mental Allenation. 64 Diseases of the Ears. 74 Acute Endocarditis. 75	31				1	1		1 1	1	1
Organic Diseases of the Heart	9		1	1		1			1	i !
Pronche Preumania	١.	i	1		1	ı	1 1	- 1	1	
Principoria 9: Pulmonary Congestion, Pulmonary Apoplexy	3		i	1	i	ï		1		
Pulmonary Congestion Pulmonary Apoplexy 94				1		, -				
Authoral Good Control of the Control	3					١		•••		1
Other Diseases of the Respiratory System 1	-1				١	١		i		1
(Tuberculosis excepted)	3	• • • • • • •			ļ	٠	;.			i 1
Diagrams and Entertile (under 9 years) 10	s !	9	1		l	1			1	!
Diambos and Enteritie (2 years and over) . 10	ξ		1 -	1			·"·			
Appendicitie and Typhlitie	<u></u>	.			١					1
Other Disease of the Liver 11	ξ,			1			!		1 *	
Acute Nonhaitle	<u></u>				1	i	····			
Delahtia Diagga					1			···· ···	1 4	4
Pulmonary Congestion, Pulmonary Apoplexy. 94 Asthma. Other Diseases of the Respiratory System (Tub-rculosis excepted). Disrrhcea and Enteritis (under 2 years). Disrrhcea and Enteritis (2 years and over). 10- Disrrhcea and Enteritis (2 years and over). 10- Disrrhcea and Enteritis (2 years and over). 10- Disrrhcea and Enteritis (2 years and over). 10- Disrrhcea and Enteritis (2 years and over). 11- Dispirate of the Enteritis (2 years and over). 11- Bright's Disease. 11- Diseases of the Lyone (Tuberculosis expented). 14- Diseases of the Romes (Tuberculosis expented).	R		1		1		į ••• , '	••• -••		1
Concepted Debilter Tetame and Selerome				1		١	, ••• j	••• •••	·····	
Bright's Disease. Diseases of the Bones (Tuberculosis excepted). 14 Congenital Debility, Icterus and Sclerema. 15 Other Diseases Peculiar to Early Infancy. 15: Sentity	1				1	···	!	··· .··		
Condition 18	ĭ	· 2		1	1	١	:•••i	••• •••		· · · · ·
Culaide by Discourse		-			1	١	' ••••	•••	••••	
Homicide by Firearms	5				1			••• •••		1
Homicide by Firearins		-				1	į J.	••• ;•••		.
Other External Violence	<u> </u>		1 1		į · · ·			•••	j	
cause of Death not Specified of Hi-defined18	. احا	, 1			h	1	١ ٠٠٠ ١	. :	.1	

Total deaths, 78. Death-rate, 12.75.

in the statistical divisions of the state of new jersey, for december $31,\ 1910.$

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DEATHS IN ORANGE.	Under one month.	Under 1 year, "not in- cluding under 1 mo."	One to	Five to ten.	Ten to fifteen.	Pifteen to twenty.	Twenty to twenty-five.		Thirty to thirty-five.		Forty to forty-five.
Typhoid Fever		1	ļ		I	1	I		2	<u> </u>	1
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Purulent Infection and Septichæmia)			ļ				!	'	1.	
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Typhoid Fever. Measles. Whooping Cough. Diphtheria and Croup. Dysentery. 12 Erysipelas. 13 Erysipelas. 14 Purulent Infection and Septichæmia. 24 Tuberculosis of the Lungs. 25 Acute Millary Tuberculosis. 26 Tuberculosis of Other Organs. 27 Tuberculosis of Other Organs. 27 Cancer and Other Malignant Tumors of the Buccal Cavity. 28 Cancer and Other Malignant Tumors of the Peritonæum, Intestines, Rectum. 29 Cancer and Other Malignant Tumors of the Female Genital Organs. 29 Cancer and Other Malignant Tumors of the Female Genital Organs. 29 Cancer and Other Malignant Tumors of the Female Genital Organs. 29 Cancer and Other Malignant Tumors of the Female Genital Organs. 29 Cancer and Other Malignant Tumors of the Female Genital Organs. 20 Cancer and Other Malignant Tumors of the Breast. 20 Cancer and Other Malignant Tumors of the Breast. 20 Cancer and Other Malignant Tumors of the Breast. 20 Cancer and Other Malignant Tumors of the Breast. 20 Cancer and Other Malignant Tumors of Cancer and Other Malignant Tumors of Other Malignant Other Malign)		 					1			2 1
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Softening of the Brain 6	5	. ·		1			٠	::	····		2
Paralysis Without Specified Cause6	3′			! -	١	! 	į	اا	•••		
General Paralysis of the Insane			¦	•••		¦		ļ'	•••	•••••	··· ···
Englepsy 6))	•	į	1	1:::	ï	!	1	•••		
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Broncho-Pneumonia 9	í	4	7		,		•••		•••		
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Other Diseases of the Respiratory System,	 2	1	•••••	1	1"	1		'''	•		. !
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in the statistical divisions of the state of new jersey, for december $31,\ 1910.$

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Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Russia.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 34.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES.
THE YEAR ENDING

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DEATHS IN ORANGE.	Under one month.	Under 1 year, "not in-	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.
Diarrhœa and Enteritis (2 years and over)10	_	-	_	_	_	1	- -	- -		:
Appendictly and Tumblitie	3;		•••••	•••		•••	•• •	••¦•••	•••••	•••
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Appendicts and Typhitis	3 4		•••••				··· j ·	•• •••	•••••	!
Other Disease of the Liver	2	• ••••		•••	••••	•••		•• •••	•••••	2
Other Diseases of the Liver. 11 Simple Peritonitis (Non-Puerperal). 11 Acute Nephritis. 11		• • • • • • • • • • • • • • • • • • • •			•••			•• •••		
Acute Nonbridge (Non-ruerperal)		• • • • • • • • • • • • • • • • • • • •	•••••	1	•••		••••••	···; ····	•••••	, , - -
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Discours of the Deserters	5 · ····	• • • • • • • • • • • • • • • • • • • •		···	•••			•• •••	·····	
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Salpingitis and Other Diseases of the Female	•l	1				١.		٦,		
Ducanoral Albuminusis and Convulsions 19	<u> </u>	• • • • • • • • • • • • • • • • • • •			•••	1:	••••	;; 1	- • •	*** ***
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Phonester exected	7	. .		l	١	1	١		i	i
Congenital Malformations (Stillhisths not included) 18	n 1	م ا	J	1		l		1	ĺ	١.
Congenium manormations (outstitutes not included)10	1 0	. 2		···		•••	۱۰۰۰ ۰	•••		
Other Disease Decilies to Pasts Infancs 18	5 4	3				•••	-	•••	· • • • • • • • • • • • • • • • • • • •	•••
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Diseases of the Bones (Tuberculosis and) 14 Rheumatism excepted) 14 Congenital Malformations (Stillbirths not included)15 Congenital Debility, Icterus and Sclerema		• • • • • • • • • • • • • • • • • • •		1	••••		,,	**		··· ''
Suicide by Fireerms 18		• • • • • • • • • • • • • • • • • • • •						•• ••		j ; 4
Suicide by Cutting or Planging Instruments 16		į		,			l .			
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Accidental Drowning 16	P .		. 1		i	1	!	- 1	ŀ	
Suicide by Firearms. 15 Suicide by Firearms. 15 Suicide by Cutting or Piercing Instruments. 16 Other Acute Poisonings. 16 Surns (Confiagration excepted). 16 Absorption of Deleterious Gases (Confiagration excepted). 16 Accidental Drowning. 16 Traumatism by Fail. 17 Traumatism by College Combine (Webleles Pail. 17	2		,	1	l	1		1		1 1
Traumatism by Other Crushing (Vehicles, Rail- road, Landalides, etc.)	_	1	1	1		ļ		-1		
road. Landslides, etc.)	D∤	· ;·····	•••••				11.		1 1	٠
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Other External Violence	Bl									

Total Deaths, 525. Death-rate, 17.72.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER 31, 1910—Continued.

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TABLE 35.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,
THE YEAR ENDING

			4	GE	P	ER	O)8 .				
DEATHS IN PASSAIC CITY.	Under one month.	Under 1 year, "not in- cluding under 1 mo."	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five	The second secon
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uberculous Meningitis30	1		4	2		•••	1				1	. 1
bdominal Tuberculosis31 uberculosis of Other Organs34	•••••	1	•••••	8				•••	1		j	۰
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ancer and Other Malignant Tumors of t	•••••	1	•		***				'''		١,	
uberculosis of Other Organs. 34 yphilis									1	2	1	ı
ancer and Other Malignant Tumors of											١,	
the Peritonæum, Intestines, Rectum ancer and Other Malignant Tumors of the Female Genital Organis. 42											1	ı
43		ļ									1	ı
the Breast. ancer and Other Malignant Tumors of Other Organs or of Organs not Specified cute Articular Rheumatism. 47 hronic Rheumatism and Gout. 48 iabetes							•••				1	
hronic Rheumatism and Gout48				1	•••	;		•••	••••		٠	•
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euchæmia					١	١	1	١			1	
ther General Diseases 55			1 1					١	1	1	1	
lcoholism (Acute or Chronic)									3	•••••	1	l
Icoholism (Acute or Chronic)			1 2	-;;	·			1"		•••••	•	٠
ncluding Cerebro-spinal Fever			ī	1.		i						•
ther Diseases of the Spinal Cord63											1	i
erebral Hæmorrhage, Apoplexy64		····.				٠		•••		1		
ther Forms of Mantal Alienation 68	• • • • • • • • • • • • • • • • • • • •	1		į							1	٠
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euralgia and Neuritis												
cute Endocarditis 78	٠,		i		1	i		R	ï	····i	4	4
cute Endocarditis	1			1			2	١	5	1		1
iseases of the Arteries. Atheroma, Aneurysm, etc 81	1		···· <u>.</u>	ļ	1			•				
cute Bronchitis	8	6	2				···			•••••	· i	
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ulmonary Congestion, Pulmonary Apoplexy94					•••	1		1				, .
sthms96											¦••	•
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(Tuberculosis excepted)	1											

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER $31,\ 1910.$

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Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Russia.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 35 .- TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES, THE YEAR ENDING

Diarrhœa and Enteritis (2 years and over)	Under 1 year, "not in-	11 11 11 11 11 11 11 11 11 11 11 11 11			2 1 	8 1 	ī	1	2 2 1 1	1 Forty to forty-five.
Diarrhœa and Enteritis (2 years and over) 105		11 11 11 11 11 11 11 11 11 11 11 11 11	2		2 1 	8 1 	ī	1	2 2 1 1	3 3
Appendicitis and Typhlitis		11 11 11 11 11 11 11 11 11 11 11 11 11	2		2	1 1		1	1 1	3 3
Hernias, Intestinal Obstructions. 109		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2		1	1 1 1		1	1	3
Cirrhosis of the Liver. 113 Simple Peritonitis (Non-Puerperal). 117 Other Diseases of the Digestive System (Cancer) and Tuberculosis excepted). 118 Acute Nephritis. 119 Bright's Disease. 120 Other Diseases of the Kidneys and Annexa. 122 Calcull of the Urinary Passages. 123 Other Diseases of Crethra. Urinary Abscess, etc. 125 Diseases of the Prostate. 126 [Other] Diseases of the Uterus. 130 Salpingitis and Other Diseases of the Prostate. 132 Female Genital Organs. 134 Accidents of Pregnancy. 134 Puerperal Hamorrhage. 135 Other Accidents of Labor. 136 Puerperal Abluminuria and Convulsions. 138 Pollowing Childbirth (Not otherwise defined). 140 Gangrene. 142 Furuncle. 143 Acute Abscess. 144 Congenital Malformations (Stillbirths not included). 150 Other Diseases Peculiar to Early Infancy. 152 Lack of Care. 153		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2		i i i i i i i i i i i i i i i i i i i	 1 1		1	1 1	3
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Other Diseases of the Digestive System (Cancer) and Tuberculosis excepted). 118 Acute Nephritis. 119 Bright's Disease. 124 Other Diseases of the Kidneys and Annexa. 122 Calcull of the Urinary Passages. 123 Other Diseases of Crethra, Urinary Abscess, etc. 125 Diseases of the Prostate. 126 Other) Diseases of the Uterus. 130 Salpingitis and Other Diseases of the Female Genetial Organs. 134 Accidents of Pregnancy. 134 Puerperal Hamorrhage. 135 Other Accidents of Labor. 136 Puerperal Septichæmia. 137 Puerperal Albuminuria and Convulsions. 138 Following Childbirth (Not otherwise defined). 140 Gangrene. 142 Furuncle. 143 Acute Abscess. 144 Congenital Malformations (Stillbirths not included). 150 Congenital Debility, Icterus and Sclerema. 151 Other Diseases Peculiar to Early Infancy. 152 Lack of Care. 153 Senility. 154		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2		1	i i i i i i		1	1	3
and Tuberculosis excepted). Acute Nephritis. Bright's Disease. Other Diseases of the Kidneys and Annexa. 128 Other Diseases of the Kidneys and Annexa. 129 Other Diseases of Terthra, Urinary Abscess, etc. 125 Diseases of the Prostate. [Other] Diseases of the Uterus. Salpingitis and Other Diseases of the Female Genital Organs. Accidents of Pregnancy. 134 Puerperal Hæmorrhage. 135 Other Accidents of Labor. Puerperal Hæmorrhage. 136 Puerperal Albuminuria and Convulsions. 138 Following Childbirth (Not otherwise defined). 40 Gangrene. 142 Furuncle. Acute Abscess. Congenital Melformations (Stillbirths not included). Congenital Melformations (Stillbirths not included). Congenital Melformations (Stillbirths not included). Congenital Debility, Icterus and Sclerema. 151 Other Diseases Peculiar to Early Infancy. 152 Senility. Suicide by Asphyxia. 166 Suicide by Hanging or Strangulation. 158 Suicide by Drowning. 158 Suicide by Firearms.		1 1 1	2		 	ī 1		1	1	3
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Other Diseases of the Kidneys and Almexa						i i i i	 2	1	1	1 1
Calcul of the Unitary Abscess, etc						1	 2	1 1	1	 1 1
Other Diseases of the Prostate						1	 2	1	1	1 1 1
Other Diseases of the Uterus 130						1 1	 2	1	1] 1 1
Salpingitis and Other Diseases of the 132 Female Genital Organs. 134 Accidents of Pregnancy. 134 Puerperal Harmorrhage. 135 Other Accidents of Labor. 136 Puerperal Septichæmia. 137 Puerperal Albuminuria and Convulsions. 138 Pollowing Childbirth (Not otherwise defined). 140 Gangrene. 142 Furuncle. 143 Acute Abscess. 144 Congenital Malformations (Stillbirths not included). 150 Congenital Debility, Icterus and Scierema 151 Other Diseases Peculiar to Early Infancy. 152 Lack of Care. 153 Senility 154 Suicide by Asphyxia. 156 Suicide by Hanging or Strangulation. 157 Suicide by Frearms. 158 Suicide by Frearms. 158						1 1	 2	1	1] 1 1 1
132 Female Genital Organs. 134 Accidents of Pregnancy. 134 Neuropeal Hamorrhage. 135 Other Accidents of Labor. 136 Puerperal Hamorrhage. 137 Puerperal Albuminuria and Convulsions. 138 Following Childbirth (Not otherwise defined) 140 Gangrene 142 Furuncle. 143 Acute Abscess. 144 Acute Abscess. 144 Acute Abscess. 145 Congenital Malformations (Stillbirths not included). 150 Congenital Debility, Icterus and Scierema 151 57 Control of Care. 153 152 Lack of Care. 153 158 Senility 154 Suicide by Asphyxia 166 Suicide by Hanging or Strangulation 157 Suicide by Drowning. 158 Suicide by Firearms. 159 Suicide by Firearms. 159			 			ï	 2	1	1	1 1 1
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Puerperal Albuminuria and Convulsions. 138	1	1				4	2	· 1:		1 '
Following Childbirth (Not otherwise defined)			. 1			ī				
Gangrene 142 Furuncle 143 Acute Abscess 144 Congenital Malformations (Stillbirths not included) 150 Congenital Debility, Icterus and Scierema 151 Other Diseases Peculiar to Early Infancy 152 Lack of Care 153 Senility 154 Suicide by Asphyxia 166 Suicide by Hanging or Strangulation 167 Suicide by Drowning 158 Suicide by Firearms 159								١		1
Furuncle 143 Acute Abscess 144 Congenital Malformations (Stillbirths not included) 150 Congenital Debility, Icterus and Sclerema 151 Other Diseases Peculiar to Early Infancy 152 Lack of Care 153 Senility 154 Suicide by Asphyxia 166 Suicide by Hanging or Strangulation 157 Suicide by Drowning 158 Suicide by Firearms 159			٠١	١		١	l			· • • •
Acute Abscess			. i		1		ļ			!
Congenital Malformations (Stillbirths not included) 150 150 150 151			.							i
Congenital Debility, Icterus and Sclerema 161 57 Other Diseases Peculiar to Early Infancy 152 152 Lack of Care 153 1 Senility 154 Suicide by Asphyxia 166 Suicide by Hanging or Strangulation 157 Suicide by Drowning 158 Suicide by Firearms 159		. ,	.			ļ	!			
Other Diseases Peculiar to Early Infancy 152 5 Lack of Care 153 154 Senility 164 156 Suicide by Asphyxia 156 157 Suicide by Drowning 158 158 Suicide by Firearms 159	10),	-1		٠	١		ļ	l	
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Suicide by Hanging or Strangulation		•	٠		•••		1	•		
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Transportion by Pircerus 170	·····	٠	1	1 4	•••	1	1			1
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Traumatism by Machines 174		1 '	٠٠٠٠	1	١	1	1 *	1 ;		1
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Homicide by Other Meens 184						•	1:			
Other External Violence 186							i			-
Injuries by Animals					1		1	-		

Total deaths, 819. Death-rate, 14.95.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER 31, 1910—Continued.

	A)E P	ERIO	Ds.			SE	X.	COLOR.	-				NA	TIV	ITY		_				co	SOCI	AL ION.	=
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Hungary.	Sweden.	Russia	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 36.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,
THE YEAR ENDING

DEATHS IN PATERSON.	2
Measter 6 5 5 4 2 1 1 Scarlet Fever. 7 8 1 8 6 1 1 Whooping Cough 8 1 8 6 1 1 Diphtheria and Croup 9 2 12 7 1 1 Including Croup 9 4 2 2 Influenza 10 1 1 Dysentery 14 2 2	
Measies 6 5 5 5 5 5 5 5 5 5	1
DiphtherIs and Croup. 9 2 12 7 1 1	1
Diphtheria and Croup. 9 2 12 7 1 1	1
Dysentery 2 2 2 2	i
Dysentery 2 2 2 2	1
Erystpelas 18 3 1	1
Other Epidemic Diseases	
Purulent Infection and Septichemia	
This provide the Lines 28 9 0 9 19 19 10 1	96:27
Acute Miliary Tuberculosis	1
Tuberculous Meningitis	1 2
Abdominal Tuberculosis	1
Tuberculosis of Other Organs. 34	1
Disseminated Tuberculosis	
Syphilis	
Cancer and Other Malignant Tumors of the	
Gonococcus Infection	!
Cancer and Other Malignant Tumors of the Stomach, Liver	1
Cancer and Other Malignant Tumors of the \	1
Pariton cum Intestines Rectum (- '
Cancer and Other Malignant Tumors of the	1; 1
Cancer and Other Malignant Tumors of the Female Genital Organs. Cancer and Other Malignant Tumors of the Breast	.!
Breast	1,
Cancer and Other Malignant Tumors of the Skin	1,
Cancer and Other Malignant Tumors of	ارا
Cancer and Other Malignant Tumors of Other Organs or of Organs Not Specified	L
Other Tumors (Tumors of the Female Geni-	`
Other Tumors (Tumors of the Female Genital Organs excepted Acute Articular Rheumatism 47 1 1	
Chronic Rheumat sm and Gout48	
Diabetes	11 1
Exophthalmic Goitre	2.
Leuchæmia 53	
Anæmia, Chlorosia 1 1 1 1 1 1	
Alcoholism (Acute or Chronic)	11 4
Simple Meningitis	4 1
Including Cerebro-spinal Fever 1	ا ا
Abemia, Chiorosis.	
Cerebral Hæmorrhage, Apoplexy	1 4
Softening of the Brain	
Paralysis Without Specified Cause	
Other Forms of Montal Mignetics	i
Epilepsy	••••
Convulsions of Infants.	••••
Diseases of the Ears	
Acute Endocarditis	7 3

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER 31, 1910.

Fifty to fifty-five.	Fifty-five to sixty.	eventy.	ighty.	ţ.							1	ł	1		į.		1 1	- 1						ı	!	
区	FIL	Sixty to seventy.	Seventy to eighty.	Elghty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	- Russia.	_ Holland.		Not stated.	Married.	Single.	Widowed.	Not stated.
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6	6	. 	7	5			89	 35		1 31	١	1		17	6	3	 1					ï	36	1 18	25	

TABLE 36.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,
THE YEAR ENDING

				AG1							-	=
DEATHS IN PATERSON.	Under one month.	Under 1 year, "not in- cluding under 1 mo."	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty five to forty.	Forty to forty-five	Forty-five to fifty.
Organic Diseases of the Heart		8	1	1	1	4	5	8	6	9	6	14
Angina Pectoris)		•••••	!			1		 ,	,		٠
Embolism and Thrombosis			· · · · · · · ·									
Hæmorrhage; Other Diseases of the Circulatory 85	s	:i									l	١
Diseases of the Larvny	l	1	1									
Acute Bronchitis89	, 1	6	ī		٠							1
Broncho-Pneumonia			18		ï			•	•••	····i	1	,
Pneumonia99	4	15	19	ĩ	3	5	6	8	7	. 4	8	10
Pulmonery Congestion, Pulmonery, Angelesy, 94		1	2				•••	1	•••	1	1	1
Asthma											i	
Other Diseases of the Respiratory System	š		1							1	2	! !
[Other] Diseases of the Mouth and Annexa)				•					ا ا	1	
Diseases of the Pharynx100)	1										
Diseases of the Esophagus	ļ		1		•••		•••	···· '	•		•••	•
Other Diseases of the Stomach (Cancer excepted)103	2	8	3	2	•••					1		ï
Diarrhœa and Enteritis (under 2 years)104	12	114	16									
Diarrh(ea and Enteritis (2 years and over)			•••••	3	4				•		1	1
Hernias, Intestinal Obstructions109	1	1	i				1			ï	2	1
Other Diseases of the Intestines110)	ļ;	2					٤.,	1			<u>.</u>
Other Diseases of the Liver			••••	***	•••	•••			-	ï	1	
Simple Peritonitis (Non-Puerperal)117	1	;		ï			1	1				
Other Diseases of the Digestive System (Cancer 118	s	,									!	
Acute Nephritis				l[1	1	1	2	8	4
Bright's Disease)¦	1		1	2	2		3	4	4	8	7
Other Diseases of the Kidneys and Annexa122			•••••		•••	•••		1		2	••••	
Dist ases of the Bladder124	i						1	i		1		
Diseases of the Prostate	¦		•••••						,			
Uterine Tumor (Non-Cancerous)							j		i,			
[Other] Diseases of the Uterus										1		
Genital Organs132]		1	1	1	8	••••		1
Accidents of Pregnancy134	·						1	1	2	2		ļ
Puerperal Hæmorrhage			•••••		•••	•••		1	1			1
Puerperal Septichæmia			•••••		•		2	8	1	1	•••	
Puerperal Albuminuria and Convulsions 138								2			1	
Gangrene			•••••		•••	•••		•••		•••••	•••	1
Salpingitis and Other Diseases of the Female Gential Organs				:::	.1			:::\		1		
Diseases of the Bones (Tuberculosis excepted)146	·				1	•••		•••			2	·
Congenital Debility, Icterus and Sclerema	77	3		:::		•••		!			····	
Other Diseases Peculiar to Early Infancy	5	2										
Lack of Care	·	1				•••	•••	!			;	•••
Suicide by Poison	, , , , ,					ï	ï	ï	1	····i	`	
Suicide by Asphyxia		1									2	ī
Suicide by Hanging or Strangulation157	٠	,		٠۱	•••	.,.		:	1		اا	•••

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER 31, 1910-Continued.

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	Fifty to nity-nve.	Fifty-five to sixty.	Sixty to seventy.	Seventy to elghty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	1 '	France.	Germany.	Ireland.	F Italy.	a Scotland.	Hungary.	Sweden.	Russia.	Holland.	Other foreign.	: Not stated.	Married.	Single.	Widowed.	: Not stated.
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TABLE 36.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES.

THE YEAR ENDING

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•						RIODS.	
DEATHS IN PATERSON.	Under one month.	Under 1 year, "not in- cluding under 1 mo."	One to five.	Five to ten.	Pifteen to twenty.	Twenty to twenty-five.	Thirty-five to forty. Forty to forty-five. Forty-five to fifty.
Suicide by Drowning	·	1		·i	.		
Buicide by Firearms		٠		'		1	1 2
Other Acute Poisonings 165				••• ••	-		
Rurns (Configuration excented) 182			. 7	••••	il'''	1	1. 1
Absorption of Deleterious Gases (Conflagration)	١		•		•		
excepted)	i		;	····	٠	·[····]·	1 ₂
Accidental Drowning169			2	1	-	1 .	
Traumatism by Firearms					1		
Traumatism by Cutting or Piercing Instruments 171	•••••				-		2 8 1 2
Tranmatism by Machines 174					-	4	2 3 1 2
Traumatism by Other Crushing (Vehicles, Rail-1	ļ		,	''' "			
roads, Landslides, etc.)	i •• ••		3	8	•	1 4	2 2 3
Injuries by Animals176		i			٠,۱	. -	
Homicide by Firearms162		• •••••	•••••	i	· · · :	1	2 2
168 Accidental Drowning	j;				- 1	· · · · · · · · · · · · · · · · · · ·	
Other External Violence	, ,	1,					
Cause of Death Not Specified or Ill-defined	· 1	21	1				i
							

Total deaths, 1,850. Death-rate, 14.73.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER 31, 1910—Continued.

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Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Russia.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 37.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,
THE YEAR ENDING

			,	G	P	ER	IOD	8.			
DEATHS IN PERTH AMBOY.	Under one month.	Under 1 year, "not in-	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
yphold Fever1		1		I	ļ			1	. 7	i	ī.,
in the second se		1	3		٠				.] i	i,	1
easies easies 7 'hooping Cough 8 iphtheria and Croup 9 cluding Croup 9 ysentery 14 rysipelas 18 urulent Infection and Septichæmia 20 uberculosis of the Lungs 28 heroulosy Meningritis 360		<u>.</u>	4	, 1	•••				.՝	'.: ا	١
hooping Cough8	•••••	.∤ 5	2		•••					;	;
iphtheria and Croup9	•••••		6	4	٠	٠		;	.'	•••	١.,
icluding Croup9 A	•••••		4	1	, •••	•••			•	• • • • • • • • • • • • • • • • • • • •	
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nharonlasis of the Lines 22			1	. •		5	٠		<u>.</u> ,		
uberculous Meningitis 30		i	i		•••	2		-	' '	, ,	
ancer and Other Malignant Tumors of the		-	1		•••	, •••	' · · · _†	••••			
Stomach, Liver								••••		• •••	
ancer and Other Malignant Tumors of the		ļ				!	1		1	1	
uberculous Meningtis. 30 uberculous Meningtis. 30 uncer and Other Malignant Tumors of the Stomach, Liver. 40 ancer and Other Malignant Tumors of the Peritoneum, Intestines, Rectum. 41		.		1	٠			••••	• • • • • • • • • • • • • • • • • • • •	• . • • •	•
ancer and Other Malignant Tumors of the 1				١	٠		l,				
Peritoneum, Intestines, Rectum ancer and Other Malignant Tumors of the Female Genital Organs		1	1	1	•••		· · · · ·		1	.,	•
Other Organs or of Organs not Specified				l	i						
other Organs or of Organs not Specified)		,	i	1		1			,		1
euchæmia		• • • • • • • • • • • • • • • • • • • •	1 **** *	1		1		7	1	• •••	়
nemia Chlorosis 54				1						•	
euchæmia 53 næmis, Chlorosis 54 ther General Diseases 55 hronic Lead Poisoning 57 imple Meningitis 61 ther Diseases of the Spinal Cord 63 erebral Hæmorrhage, Apoplexy 64 eneral Paralysis of the Insane 67 onvulsions of Infants 71	1	i	1	1	ï	Ì	1				
hronic Lead Poisoning57	ļ [.]			l	٠		٠'		1		
imple Meningitis 61	1	1 8	χ <u>2</u>	1				11.		1 1	l
ther Diseases of the Spinal Cord 63		.;	. 1			١					
erebral Hæmorrhage, Apoplexy64		-		·•••	i			· · · · ·		•••	٠.
eneral Paralysis of the Insane				¦	•••	1			•• ' • • • • •	• •••	
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reania Diseases of the Heart		. · · · · · · ·	'l' ••••	1 3			· ;;	·;; ·	••	2 1	i.
cneral Paralysis of the Insane.	١ '			1 4	•	; •••	•	1 1	•••	2 1	i.
iseases of the Veins (Varices, Hæmorrhoids,)		1		1	1	1	1	١١	1	,	
Phlebitis, etc.)	· · · ·		• • • • • • • • • • • • • • • • • • • •	1	• • • • •	·i•••		-	•• ••••		•
iseases of the Lymphatic System (Lym-)	1	I	١,	1	!	1		t '	•		
phangitis, etc.)					1					• •••	•
cute Bronchitis89	1 :	2 3		· • • •	· ;•••	1		٠,٠	•••	<i>:</i>	٠.
roncho-Pheumonia91	ļ			1	: •••	•		···.'·		ļ	:
Tieumonia			1	, ,	•••	·¦•••	١.	3	3	0 1	i
himonesy Congestion Pulmonesy Apopleys Q4				1	• •••	1				٠٠ ٠٠	٠.
sthma 96						•			1		•
ulmonary Emphysema97											٦.
Other Diseases of the Mouth and Annexa99	l				1		1		••	1	
licer of the Stomach		.	.	٠.		٠. ا			1		J.
ther Diseases of the Stomach (Cancer excepted)103	1 :	2	.! .:	i	• , • •	٠	·	J	••;••••	••, •••	٠.
Diarrhoea and Enteritis (under 2 years)104	1 1	8 6	5 2	5	٠.	• • • • • • • • • • • • • • • • • • • •		• • • • •	•• ••••	··! ···	١.
Diarrhoea and Enteritis (2 years and over)105			• • • • • • • • • • • • • • • • • • • •	-						· · ·	٠
Ippendicus and Typnitus				.	• •	.,			•••	;	٠
irrhosis of the Liver 113	1		1	1.	• ••			1	••	_ i	i.
ther Diseases of the Liver		i		.	.			:			<u>.</u>
cute Nephritis				.	.!.	. 1	L,	1	1	1	i
Bright's Disease120	ij]	1	١,			. 1	Ii.		1, 1	1
)iseases of the Bladder124			١	.	٠,	·	.	١١.		1	ı
Puerneral Hæmorrhage135	·		٠, ٠	٠١	٠		. 1	1.		·- ·-	ا
201F 41			1	1			٠ 0	,		2 2	٠,
phangitis, etc.)			• ; • • • •		• , ••	• , •••					•

in the statistical divisions of the state of new jersey, for december $31,\ 1910.$

	A	GR PI	ERIOI	D6.			8E		COLOR.					NA	TI	VIT	Y.						co	OCIA NDIT	L ION.	
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Elghty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Kussia.	Holland	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 37.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,
THE YEAR ENDING

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	!			AGI	P	ERIC	DB.				
DEATHS IN PERTH AMBOY.	Under one month.	Under 1 year, "not in-	One to five.	Five to ten.	Ten to fifteen.	Twenty to twenty.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
Diseases of the Bones (Tuberculosis excepted)146		1		l l			.	1 1			•••
Congenital Debility, Icterus and Sclerema	31	. 5			-	·•• ··	.				•••
151 Other Diseases Peculiar to Early Infancy. 152 Sentilty. 154 Suicide by Hanging or Strangulation. 157 Suicide by Frearms. 158 Suicide by Frearms. 159 Burns (Conflagration excepted). 167 Absorbtion of Deleterious Gases (Conflagration 167	5			[]			٠	·	•••••	•••	•••
Seniity154	•••••	•	·		-	· ·-	٠	į ;	•••••		•••
Suicide by Hanging or Strangulation	•••••	•••••	•••••			!	• • • •		•••••		•••
Suicide by Drowning	•••••	•••••		···;	••• [•	•• ; ••	.	1	•••••	•••	•••
Purps (Configuration or control	•••••		•••••	۱۰۰۰۱	••• '•	•• ••		1	•••••	,	•••
Absorption of Dolothrious (James (Configuration)	•••••	1 -	1	۱۱		,		••••	•••••	•••	•••
excepted)168					j.		.				•••
Absorption of Deleterious Gases (Confiagration 168				اندا	11	-	2	1		•	
Traumatism by Fall 179	••••	•••••	•••••	l •i	• ; •			2		ï	ï
Traumatism by Other Crushing (Vehicles Rail-)	•••	•••••			••••			1 -	-	-	-
Traumatism by Other Crushing (Vehicles, Rail- road, Landslides, etc.)	•••••	•••••	•••••	2	•••;•	1	3		1	3	2
Effects of Heat				ا'		1'	١				
Homicide by Other Means184	1			 ,	'.						
Cause of Death Not Specified or Ill-defined189	_ 3	. 14	5	!	!.			١		٠	•••

Total deaths, 507. Death-rate, 15.78

in the statistical divisions of the state of new jersey, for december 31, 1910—Continued.

	AG	E P	ERIO	DS.			SE	x.	COLOR	۱.					NA	TI	VIT	Y.						cc	FOCI NDI	I I ON	
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.		Number of decedents "color black" designated by figure in this	column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Russia.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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542

TABLE 38.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES, THE YEAR ENDING

•							OD			
DEATHS IN PHILLIPSBURG.	Under one month.	Under 1 year, "not in- cluding under 1 mo."	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.
Company Comp							2	1		1
deasles			8			!		,		
carlet Fever				¦ 1	٠	•••	•		ļ	1
Vhooping Cough	•		1 2	····			•••	···		•••
nanasa and Croup		•••••	'	ļ	•••			••• •••	• • • • • • • • • • • • • • • • • • • •	
uberculosis of the Lungs		1		1	1		4	4 4	2	2
uberculous Meningitis30		1		I			•••	1		
bdominal Tuberculosis31			į	ļ			٠	••••	.:	····
uberculosis of Other Organs			į		1	•••	•••	•••		• • • •
onococcus infection			i		ļ	•••	;	•••	• •••••	,
Stomach Liver						ا		····	. 1	٠
ancer and Other Malignant Tumors of the	1	;	1	1			-			ı
Peritonæum, Intestines, Rectum. ancer and Other Malignant Tumors of the Female Genital Organs.		1						•••,••	• •••••	i
ancer and Other Malignant Tumors of the	i	1	1	1	J	İ			.i	1
Female Genital Organs				• •••	1	"	,	•••, ••		
Cute Articular Kneumatism			• • • • • •	····	•••		1	•••		1
nomic ('hlorods				;	• • • •	•••				. •••
hronic Lead Poisoning5	1			1						
simple Meningitis		. 1	լի գ	2 1	٠	١	·;	ا		•
ocomotor Ataxia	j					•••	•••	••• •		•
Cerebral Hæmorrnage, Apopiexy		1 4	, י	ų	· †		•••			- 1
Enilansy		i								• •••
Convulsions of Infants7	1	i :	ı			1	1			
Other Diseases of the Nervous System74	ļ	.!			.					
Pericarditis	[.,			٠٠.	¦				
Acute Endocarditis	·····	• • • • • • • • • • • • • • • • • • • •	٠		., 1	1		•••,••		:
Organic Diseases of the fleatt	` ·····	• • • • • • •	• • • • • • • • • • • • • • • • • • • •	٠,٠٠	• •••	. 1	1		••, •	
liseases of the Arteries. Atheroma, Angurysm, etc8	í i				• •••			i		
Diseases of the Larynx8	7		1				1	i[.,		• ••
Broncho-Pneumonia9	٠		1	٠.						٠. ا
neumonia	5	1 .	4 .	5		• •••	. 1	1	1' '	2
Pulmonery Congestion Pulmonery Anopleys 9	` ·····	; ·····]·····		•,••	• •••	•••	•••	¥	•1••
other Diseases of the Stomach (Cancer excepted)10	3	•	• •••••	• ••			· · · · ·			• ••
Diarrhœa and Enteritis (under 2 years)10	4	8 1	0	2						
Diarrhoea and Enteritis (2 years and over)	5			٠,١	٠١	· i	٠	·	'	
irrhosis of the Liver11	3			١.,	٠	• •	• •••			
Perioneum Intestines Rectume Asancer and Other Malignant Tumors of the Female Genital Organs	Ď	;	·· į ·· ··	• • •	-}	• ••	٠;	1	·· ····	• •
Diseases of the Bladder	4	-						1;		i
Other Diseases of the Uterus13	D		. '			.	·			ī,
Other Diseases of the Skin and Annexa14	5	. 1	1				.,	l		
Congenital Debility, Icterus and Sclerema	1 1	1	1				·!	. ••• •		
Lack of Care	3			٠.,٠	•- ••	·i	• •••			•;••
Diarrices and Emerics (2 years and over)	ž	••••	••i••••	• •		• ••	• • • •			•• ••
Burns (Conflagration excepted)	7 :	• • • • • • • • • • • • • • • • • • • •		2		• • • •				•••
Traumatism by Fall	2			-,		- ; ••				i :
Traumatism by Other Crushing (Vehicles, \ 17	κ.		1	1		1		1 1	11	1 .
Railroad, Landslides, etc.)	,	.		••;•	••	• ••	• •••	1 .	4	٠,
Cause of Death Not Specified or Ill-defined18	ש		11			٠١	- '	'.		٠.٠١

Tetal deaths, 213. Death-rate, 15.82.

in the statistical divisions of the state of new jersey, for december $31,\ 1910.$

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Fifty to fifty-five.	Fifty-five to sixty.	Sixty.to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Itlay.	Hungary.	Sweden.	Russia.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 39.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,

	1		1	LG E	P	ER	tod	8.			
DEATHS IN PLAINFIELD.	Under one month.	Under 1 year 'not in-	One to five.	Five to ten.	Ten to filteen.	Effteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
Typhoid Fever1	l					1	1		1		1
Scarlet Fever	()	ļ	1	1		٠					
Diphtheria and Croup		٠	2	1		•••				:	
Influenza 10 Dysentery 14 Erysipelas 18	it		ï			•••					
Erysipelas	3	1							· ·····	· ···	
Tuberculosis of the Lungs			2	1	1	3	4.	3	2 4	1	, 2
Abdominal Tuberculosis			•••••	1		٠.;	••••	٠;	L	• • • • •	·•••
Tuberculosis of Other Organs34							1			•••	
Disseminated Tuberculosis							•••			1	١
Cancer and Other Malignant Tumors of	·¦·····	1				•••		•••		•	ı
the Buccal Cavity	•ે	ļ				•••	•••	·•• ¦•·		·¦ •••	ļ
Cancer and Other Malignant Tumors of		1	ļ	1 :				1	١,	i	1
the Stomach, Liver						••••		•••••	1 4	1	1
the Peritonsum Intestines Rectum	ļ							¹		. 1	ļ
Cancer and Other Malignant Tumors of	i	i	1				1	- 1	1	l	
the Female Genital Organs	,				•••	•	•••			· ···	•••
Cancer and Other Malignant Tumors of	·								. !		2
Interest			ļ			1			1		
Acute Articular Rheumatism 47	·!			l	1						
Diabetes			 	•••		1					
Other General Diseases 55		·····•				•••	1	••• ••		• • • • • • • • • • • • • • • • • • • •	١
Alcoholism (Acute or Chronic)							••••		. 1		ï
Simple Meningitis61	1		1				••••				
Locomotor Ataxia	!· ·· ·					•••		••• ;••		·	ļ
Cerebral Hamorrhage Apoplexy 64					-:	•••		··· ··		· ¦ · · ·	17
Paralysis Without Specified Cause66				ļ,	!					1	١
Epilepsy	}				1	•••	•		1	• • • •	·
Convulsions (Non-Puerperal)70	'	····i				••• ;	•••	••• ••	·i	• •••	· · · ·
Neuralgia and Neuritis		·									
Acute Articular Rheumatism	ļ			1			·•• j	٠٠. ٠٠			
Organic Diseases of the Heart	1				1			1		; 2	1
Diseases of the Arteries, Atheroma, Angurysm, etc									1	1	•
Diseases of the Lymphatic System (Lymphangitis, etc.) 84				· · · · ·					.]		
Acute Bronchitis			ļ			•••				·	
Broncho-Pneumonia 91	'		<u>5</u>			•••	[٠	·
Pneumonia		8	8	ì			2	2	. 1		. 2
Pleurisy93			1	,····	ا	•••			. 1	١٠	•••
Other Diseases of the Respiratory System	1		ļ	j,	•••;	•••			• ! • • • • •	1	••••
(Tuberculosis excepted)98		1				•••			-		¦
Diseases of the Pharynx100	1	1	ļ .	1			•••,	!	.	į	
Ulcer of the Stomach		·····	ļ			•••	•	•••;••	. 1	ļ	-:
Utner Diseases of the Stomach (Cancer excepted)103		10	····;	!		•••	•••	···i··		····	1
Mainca and Entring (under 2 Jears)		10	i •	,	***	•••	***		. i		1
Diarrhœa and Enteritis (2 years and over)											
Chronic Bronchitis. 90			1	1.		•••				. 1	٠

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER $31,\ 1910.$

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Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.		Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Irefand.	Social and	Hungary.	Sweden.	Russia.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 39.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES.

THE YEAR ENDING

	AGE PERIODS.
DEATHS IN PLAINFIELD.	Under 1 month. Under 1 year, "not in- cluding under 1 mo." One to five. Five to ten. Then to fifteen. Fifteen to twenty. Fifteen to twenty. Thirty to thirty-five to thirty. Thirty to thirty-five. Thirty five to forty. Forty the forty forty-five.
Other Piseases of the Intestines. 110 Cirrhosis of the Liver. 113 Acute Nephritis. 118 Bright's Disease. 120 Other Diseases of the Kidneys and Annexa. 128 Diseases of the Prostate. 126 Accidents of Pregnancy. 134 Other Accidents of Labor 136 Gangrene. 142 Congenital Malformations (Stillbirths not included). 150 Congenital Deblity, Icterus and Scierema. 151 Other Diseases Peculiar to Early Infancy. 152 Lack of Care. 153 Senility. 154	
Suicide by Hanging or Strangulation	

Total deaths, 324. Death-rate, 15.77.

in the statistical divisions of the state of new jersey, for december 31, 1910-Continued.

	▲G	E PE	RIOI	DB.			SE.	х.	color.					NA	TI	VIT	Y.						SOCI.		
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Gweden	Russia.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated,
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TABLE 40.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,
THE YEAR ENDING

				AGI							
DEATHS IN PRINCETON.	e mo	Under 1 year, "not in- cluding under 1 mo."	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	I Twenty-five to thirty	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
Typhoid Fever				-	-	-	-		- -	-1-	_
Diphtheria and Croup9			•				•••	.			•••
Durontony 14	ļ		******		-	•••	•••			• •	•••
Dysentery	ļ		^		•••	•••	•••	·:: ·	ا <u>د</u>	• ••	
											Z
Concer and Other Malignant Tumors of			•••••	•	١	•••	•••	•••	••	1,	•••
the Stemach Liver	ļ	•••••						·			•••
Rickets 36 Cancer and Other Malignant Tumors of the Stomach, Liver. 40 Cancer and Other Malignant Tumors of the Peritonsum, Intestines, Rectum. 41 Cancer and Other Malignant Tumors of the Female Genital Organs. 42										1;	! !
Cancer and Other Malignant Tumors of	 										•••
Disheter So	ĺ				1	li		-	1	•	,
the Female Genital Organs	1		•••••		•••		•••			••!•••	!
Carabral Hamorrhage Anonlevy 84			•••••		•••	-	•••			• • • • • • • • • • • • • • • • • • • •	•
Paralysis Without Specified Cause 66	1						•••			••;•••	
Acute Endocarditis			•••••		ï	'	•••			•••	•
Organia Discesses of the Heart 79	ļ				•	••••	•••	•••		••!•••	•••
Diseases of the Arteries Atheroma Apenrysm etc. 81					١		•••			•••	,
Acute Bronchitis 89		3	2		ı		•••				
Broncho-Pneumonia 91		l i		1			•••				1
Pneumonia 92					1						
Other Diseases of the Stomach (Cancer excepted)103		1		I	l						
Diarrhosa and Enteritis (under 2 years)104		3		1							1
Diarrhosa and Enteritis (2 years and over)105					l						
Appendicitis and Typhlitis108					ļ				1		1
Simple Peritonitis (Nonpuerperal)117											1
Acute Endocarditis	1			١	١			1.		' 1	1
Diseases of the Bladder	ļ			 	 					1,	
Puerperal Septichæmia137							1				i
Diseases of the Bladder 124 Puerperal Septichemia 137 Following Childbirth (Not otherwise defined) 140 Gangrene 142 Congenital Debility, Icterus and Sclerema 151 Senility 154 Suicide by Hanging or Strangulation 157							•••			: 1	
Gangrene	•		•••••	•••		•••	•••	•••	a¦	•••	i
Congenital Debuity, Icterus and Scierema	1		····			•••	•••		••,••••	•	
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NUICIDE DV HADEIDE OF SURIDENIALION	1				١	•••	•••	1.		-1	. 1

Total deaths, 78. Death-rate, 15.19.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER $\bf 31,\ 1910.$

	A.C	3E P	ER IO	DS.			SE	x.	COLOR.					N.	AT:	ıvı	TY						C	BOCI ON DI	AL TION	
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Russia.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 41.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,
THE YEAR ENDING

	Ì						101					
DEATHS IN RAHWAY.	Under one mo	Under 1 year, "not in- cluding under 1 mo."	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	These due to differ
Typhoid Fever		i	_	-	-	-	-	-:	-	_		,-
Typhoid Fever.				•••	•••	1		···;	1	*****	1	۱.
Innuenza	ļ				••••	•••	••••		١٠٠٠٠ ١		٠	١
Uperculosis of the Lungs			•••••	,	•••	•••	••••	'····	Zi.	•	•••	ļ
tuperculous meningrus		1	······	l		•••	•••	ا:::ا		• ••••	٠	•
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Tuberculosis of Other Organs				ļ	•••	·	! ••••		!	•••••	1.	•
ancer and Other Mangnant Tumors of		l	1	l	١	١	i'	١ا			1:	
the Buccai Cavity	1										••••	
ancer and Other Mangnant Tumors of	I	l	l	l	١	١					1	
the Stomach, Liver	1	1	1			1			· · ·		•	•
ancer and Other Malignant Tumors of 1	F	i					1	!!				
the Female Genital Organs	1	1							ı'''i	•••		•••
Cancer and Other Malignant Tumors of \	1	1	i		1		[ll	1		l	
the Breast			i		••••			•••	i.	•••••	·;	•••
ancer and Other Malignant Tumors of (1	1		ł			1				! !	
Other Organs or of Organs not Specified, 5		1			١	١	١	•••	•••	•••••	:	•••
Inæmia, Chlorosis54					٠.	ļ				•••••		
)ther General Diseases55	·					i						٠.
imple Meningitis61			2	١			·			•••••	•	٠.
ther Diseases of the Spinal Cord	١			١		١		٠				
Perebral Hæmorrhage, Apoplexy64	,	1			١	ļ		٠				٠.
Softening of the Brain 65		1		l	١	ł	١		۱۱		1	
Paralysis Without Specified Cause		1	l	l	١	1			١'			
ther Forms of Mental Alienation68		1		١	·	l	l				1	
Convulsions of Infants	: 1										1	
cute Endocarditis78			l		i		i				'	
reanic Diseases of the Heart79				ł		١	1					
diseases of the Arteries Atheroma Anguryam etc81	l	1		1	i	1		,				
cute Bronchitis				1	١		1	1		,		
troncho-Pneumonia 91	(*******	1		l	٠				ļ	·····;	••••	•
neumonie '92	1	-		l'i		١	1		١١		ï	۰
louriev 93	1	1	1	*	٠	1					- i	•
Herrhon and Enteritie (under 2 vours) 104		,	9	1	٠	1	1	•••	l		••••	•
Jamies Intestinal Obstructions 109		1	"	1		1	1				••••	٠
ther Disease of the Lives 118				1	•••	١	1		١٠٠٠,	••••••	••••	•
imple Desitoritie (Non Duernors)		1			ļ				••••	•••••	•••	•
Pricht's Disease 1901-ruerperary	1	1			•		; •••		۱		••••	•
Viscoses of the Proceeds	•••••		· •	!	i ••••		••••	•••	١١			•
harmanal Albuminumia and Commissions 199				;···		•••				•••••	!	•
ther Discount of the Chin and Appear	1			1***	,•••	•••		•••	1	•••••		•
Language of the Skill and Alliexa				1	١	,	1		١٠٠٠,		•••	•
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Total deaths, 99. Death-rate, 10.60.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER 31, 1910.

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	Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	TT-Ited Obster	Onited States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Russia.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 41.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,
THE TEAR ENDING

	i						101					
DEATHS IN RAHWAY.	Under one mo	Under 1 year, "not in- cluding under 1 mo."	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Porte, for to fifty
Influenza			_	-	_	1	-		-1		1	. —
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hiberoulous Meningitis 30		1		,	•••	•••		!	-1	••••	i	ı
hdominal Tuberculosis 31				١	ï	•••	١	۱,		• ••••		i-
Tuberculosis of Other Organs .34				١	1		,	-1		•••••	1";	į.
ancer and Other Malignant Tumors of						•••• 	٠		!	•••••	1 -	ľ
the Buccal Cavity				٠		۱	۱۱			•••••	١	-
Cancer and Other Malignant Tumors of)	i	1	i					i	Ì		; _	
the Stomach Liver					•••		, }		•••	•••••	1	١
ancer and Other Malignant Tumors of	l		1					- 1	ł		•	i
the Female Genital Organs	•••		j			ļ·	١٠٠٠		•••	•••		
ancer and Other Malignant Tumors of)	l	1 1					:	- 1	_			•
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ancer and Other Malignant Tumors of				l	1	١,	١ '	- 1			1	ļ
Other Organs or of Organs not Specified.				[…		····	• • • •	••••	•••	•••••		٠.
næmia, Chlorosia54	 			١	۱	ļ.,,	١	٠			٠	
ther General Diseases55		l'	1	١		·						
imple Meningitis61			2	; : •	١	١					•••	٠.
ther Diseases of the Spinal Cord63	ļ		l	١		١						٠.
erebral Hæmorrhage, Apoplexy64		1		i			!		!			٠.
oftening of the Brain65							١٠٠٠,					
Paralysis Without Specified Cause				l			;				•••	١.
ther Forms of Mental Alienation68												١.
onvulsions of Infants71	. 1		l. .	1								
cute Endocarditis 78			l		İ	1	١	1			i	١.
rganic Diseases of the Heart 79			l		١	·	l		٠'		١	١.
diseases of the Arteries, Atheroma, Aneurysm, etc81					١		l			••••	١	١.
cute Bronchitis89						· • • •	ļ		,		l	١.
roncho-Pneumonia91	· , • • • • • •	' 1					'	!	:		l	١.
neumonia92	1			1	١	ļ.,,	 	!	٠١		1	ė
leurisy93					١	١	 .				·	J.
plarrhoea and Enteritis (under 2 years)		5	8	١	١	١	·				ļ	J,
Iernias, Intestinal Obstructions		·			١		···.]			١	١.
ther Diseases of the Liver115			l		ļ						١	١.
imple Peritonitis (Non-Puerperal):	l	i		١	ļ	 	١;				٠	١.
Bright's Disease			1					!	•••		٠	.1.
iseases of the Prostate126		l			·	ļ						١.
uerperal Albuminuria and Convulsions138			·	١	ļ		;		1		١	
ther Diseases of the Skin and Annexa		1			١		ļ		,			
ongenital Debility, Icterus and Sclerema151	4	·	•••••	١					•••		1	
oftening of the Brain 65 ararlysis Without Specified Cause 66 onvulsions of Infants 71 cute Endocarditis 78 reganic Diseases of the Heart 79 siesases of the Arteries, Atheroma, Aneurysm, etc. 81 cute Bronchitis 89 troncho-Pneumonia 91 neumonia 92 slarrhoca and Enteritis (under 2 years) 104 ferrias, Intestinal Obstructions 109 ther Diseases of the Liver 115 imple Peritonitis (Non-Puerperal) 117 right's Disease 120 userperal Albuminuria and Convulsions 138 userperal Albuminuria and Convulsions 138 ther Diseases of the Rikin and Annexa 145 ongenital Debility, Icterus and Sclerema 151 Traumatism by Other Crushing (Vehicles, Rail) 175 Traumatism by Other Crushing (Vehicles, Rail) 175						1		اا	,	•••••	1	
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raumatism by Other Crushing (venicles, Rail-!												

Total deaths, 99. Death-rate, 10.60.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER 31, 1910.

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TABLE 42.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,
THE YEAR ENDING

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DEATHS IN RED BANK.	Under one month.	Under 1 year, "not in- cluding under 1 mo."	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
Typhoid Fever1				1	1	_					_	
Moneloe	l	1.	1	1		L		1	- 1		1	1
Whooping Cough8	٠		1	١								١
Diphtheria and Croup9			2	•••		•••		•••	•••}	•••••	••••	ļ
Whooping Cough	•••••			•••		••••	۰۰۰۰'		Ψį.	•••••	•••	٠
Cancer and Other Malignant Tumors of the	ļ					•••		1	-1	•		
Cancer and Other Malignant Tumors of the Buccal Cavity	·····			•••		•••		•••		•••••	•••	ļ
Cancer and Other Malignant Tumors of the	1		l									
Stomach, Liver						•••	١		···	•		
Cancer and Other Malignant Tumors of the Peritonsum, Intestines, Rectum										•••••		
Cancer and Other Malignant Tumors of)	1								ļ		1	i
Other Organs or of Organs Not Specified }			••••	•••	ا ••••ا	•••	••••	•••	···i	•••••		
Diabetes50	·			•••	١	•••	1		-::	•••••		
Other Diseases of the Spinal Cord		•••••		••••		•••	•••	1,	1	•••••		ļ
Cerebral Hæmorrhage, Apoplexy				•		•••			ï		1	
Other Organs or of Organs Not Specified										••••••		I:::
General Paralysis of the Insane											•	٠
Other Diseases of the Nervous System74		•••••				•••	••••		•••	•••••	•••	
Pencardius	•••••		•••••	1	···· '	•••	•••,	•••	· · · į	•••••		
Organic Diseases of the Heart. 79									i	····i		ï
Angina Pectoria80										î		
Diseases of the Arteries, Atheroma, Aneurysm, etc81 Hæmorrhage: Other Diseases of the Circulatory System							••• !		٠ا			
Hæmorrhage; Other Diseases of the Circula-	1							!			اا	l
Acute Propositie		1							ĺ			
Chronic Bronchitis90				•••					!	•• •••	1	
Broncho-Pneumonia91								,				
Pneumonia92	• •••	1			1						1	٠
Pileurisy	•••••	1		•••	•••	•••	1		•••	••••		٠
Illeer of the Stomach 102		•••••	•••••	•••	•••	•••		•••	•••	•••••	1	
Diarrhoea and Enteritis (under 2 years)	2	9	1							•••••		l:::
Diarrhœa and Enteritis (2 years and over)105			1									
Hernias, Intestinal Obstructions109			<u>.</u>							1		
Cirrhosis of the Liver	1	ļ ₁	•••••	•••		•••	•••	•••		•••••		
Acute Nenhritis (Non-Fuerperar)			******	•••	••••	•••	••	•••		•••••		•••
Bright's Disease 190						ï				·· ···		
Diseases of the Prostate126	ļ											
Acute Bronchitis		<u>-</u>		•••			1		{	·····		
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Conflagration			¨ïi		:	:::				•••••	•	
Burns (Conflagration excepted)167				1			1]		•••••		
Accidental Drowning169							1	;				
Cause of Death Not Specified or Ill-defined189	·····	'ا		اا	1		٠١	1	٠١	•••••	·	
Total deaths 118 Death-rate 15 27							-					_

Total deaths, 113. Death-rate, 15.27.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER 31, 1910.

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Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" desig- nated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Russia.	Holland.	other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 43.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,
THE YEAR ENDING

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DEATHS IN RUTHERFORD.	Under one month.	Under 1 year, "not in- cluding under 1 mo."		Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.
Scarlet Fever				11					. 1	
Reriberi 97	1			1 1	- 1	- 1	- 1	- 1	1	
Tuberculosis of the Luncs 29	:1	í		ii		-11	- ;	,	1	1 1
Tuberculous Meningitis80	1		1			1				1
Tuberculous Meningitis 80 Tuberculosis of Other Organs										
Cancer and Other Malignant Tumors of	J				- 1	. 1	ı		1	i L
the Stomach, Liver				ا ۱۰۰	••••			··· ··	• ••••	'{
Cancer and Other Malignant Tumors of the Stomach, Liver. Cancer and Other Malignant Tumors of the Female Genital Organs. Cancer and Other Malignant Tumors of the Female Genital Organs. 42 Cancer and Other Malignant Tumors of the Breast.	ļ							ļ	.	ļl
Cancer and Other Malignant Tumors of	.1	1		1 1	Į	- 1		-	ı	İ
the Breast			•••••	•••					• • • • • •	1 *** **
Other Diseases of the Spinal Cord63	·							:	L	
Cerebral Hæmorrhage, Apoplexy				١			··· '	[.]		
General Paralysis of the Iusane	'						••••		-	
Convulsions of Infants71		1						}		
Chronic Kneumatism and Gout							•••	•••	-	
Chorea					•••			•••;••	. i	
Organic Diseases of the Heart79	1	1		1	•••		•••}		• • • • • •	1
Diseases of the Larynx87			1		•••	•••	•••	•••!••	• ; • • • • •	
Broncho-Pheumonia91			1		•••	•••	1,	••• '••		
Pheumonia9x			•••••		••••		·••	•••!••	- 1	٠٠٠٠].
Figurisy		1	l					!	-1	. 1
Asthma	: 1			•••	•••	••••		•• ••	• •••••	• ; • • •
Tilear of the Stomech 100			!		•••	••••	***	•••!•	• •••••	• ; • • • ! •
Other Diseases of the Stomach (Cancer excepted) 109				••••	•••	•••			•,••••	
Diagraphica and Enteritis (under 2 years)		i	1			•••				. -
Annendicitie and Typhlitis 106		1 -	1 *		•••	•••	•••			
Other Diseases of the Intestines 110		" "			•••		ı'''ı		.1 .	
Cirrhosis of the Liver		1			•••	•••				. -
Acute Nephritis		1		1		ï				
Bright's Disease		1		l			1	,		
Pulmonary Congestion, Pulmonary Apoplexy 94 Asthma 96 Ulcer of the Stomach 102 Other Diseases of the Stomach (Cancer excepted) 103 Diarrhea and Enteritis (under 2 years) 104 Appendictits and Typhlitis 105 Other Diseases of the Intestines 110 Cirrhosis of the Liver 113 Acute Nephritis 115 Bright's Disease 126 Chyluria 187 Congenital Debility, Icterus and Sclerema 151 Suicide by Poison 158 Suicide by Firearms 165 Traumetism by Fall 17										
Congenital Debility, Icterus and Sclerema151	. 8	1		ļ						
Suicide by Poison158							!			
Suicide by Firearms)						1	· j		
Traumatism by Fall 178 Effects of Heat 176			ļ	١		1	}		•¦	
Effects of Heat	·····							٠٠. ا ٠٠.		.,
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Total deaths, 69. Death-rate, 9.79.

in the statistical divisions of the state of new jersey, for december $31,\ 1910.$

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Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents. "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Rusela.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 44.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,
THE YEAR ENDING

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DEATHS IN SALEM CITY.	nder one mo	Under 1 year, "not in- cluding under 1 mo."	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Posts And to Albu
yphoid Fever	·—	i	_	-	-	-	-	-	-1		<u> </u>	1
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Stomach Liver.		ļ	• • • • • • • • • • • • • • • • • • • •	••••	•••	•••		••••	·i	•••••		1
incer and Other Malignant Tumors of the		1		1					1			ı
Female Genital Organs	•••••		•••••	•••	•••	•••	••••	•••				ŀ
ancer and Other Malignant Tumors of the	:		1			i	!		1		!	ı
ancer and Other Malignant Tumors of the Breast Assert and Other Malignant Tumors of Other Organs or of Organs not Specified 45 iabetes 50 næmla, Chlorosis 50 næmla, Chlorosis 61 nerebral Hæmorrhage, Apoplexy 64 ferburg of the Brein 65	·····		•••••		•••		•••		,	•••••		ï
ancer and Other Malignant Tumors of t		i		1 1		1				i		ı
Other Organs or of Organs not Specified }			••••	-						*****	!	ï
iabetes50												÷.
næmia, Chlorosia54	·····	····			•••		•••			•••••	ļ	
mple Meningitis61		1	¦	•••	•••		١					l
erebral Hæmorrhage, Apoplexy64	,	ļ		•••		•••	•••		•	•••••	ļ	i
retrial numeriage, professy fitening of the Brain 65 aralysis Without Specified Cause 60 pilepsy 69	•••••		•		•••			•••				1
aralysis without specined cause		• • • • • • • • • • • • • • • • • • • •	•••••	•••	•••	•••	•••	•••	••••	•••••		.1
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decades of the Lumphatic System (Lumphangitis etc.) 84										•••••	1	٠,
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roncho-Pneumonia 91	1	_	l i					•••	iI			ì
neumonia 92	1		ī			ï		•	11	1		ľ
ulmonary Congestion, Pulmonary Apoplexy 94			ļ <u>-</u>	1		ļ. <u>.</u> .			1	l	1	
ther Diseases of the Stomach (Cancer excepted)103		1				l						
iarrhœa and Enteritis (under 2 years)		6					l		i			
iarrhœa and Enteritis (2 years and over)105				١			1		J }		١	
ernias, Intestinal Obstructions109	١			١]		٠	
ther Diseases of the Intestines 110	וי 1	l]			١		ļ		[]		ļ	
cute Nephritis118	·]		1	•••	·	•••	,	•••			٠,	
right's Disease120				١	•••		•••	•••	1,	· · · · ·		•
ngina Pectoria. 80 Iseases of the Arteries, Atheroma, Aneurysm, etc. 81 Iseases of the Lymphatic System (Lymphangitis, etc.), 84 cute Bronchitis. 88 roncho-Pneumonia. 91 neumonia. 92 ulmonary Congestion, Pulmonary Apoplexy. 94 ther Diseases of the Stomach (Cancer excepted). 103 iarrhœa and Enteritis (under 2 years). 104 iarrhœa and Enteritis (2 years and over). 106 ernias, Intestinal Obstructions. 108 ther Diseases of the Intestines. 110 cute Nephritis. 110 right's Disease. 120 ther Accidents of Labor. 130 ongenital Deblity, Icterus and Sclerema. 181	ي	:		•••	•••			•••	1	•••••	٠.	•
ongenital Debility, Icterus and Scierema								•••		•••••	• ••	٠
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ther Accidents of Labor			· · · · ·				•••		ļ!	·····	٠.	•
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nonmotion by Fall) I											

Total deaths, 94. Death-rate, 14.21.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER $31,\ 1910.$

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Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" deag- nated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	8weden.	Russia.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 45.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,
THE YEAR ENDING

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DEATHS IN SOUTH AMBOY. casies	Under one month.	Under 1 year, "not in- cluding under 1 mo."	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.
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iphtheria and Croup9			8						٠'.		اا
nfluenza					 		,	1	1.		'
uberculosis of the Lungs28			 					•••	,	• • • • • • •	•••
uberculous Meningitis			1		 .		!	;		••••	;
isseminated Tuberculosis35							١!]
ancer and Other Malignant Tumors of the (ĺ	i	١,				, 1		i		: 1
Stomach, Liver			l ^	••••		••••	••		•••		·
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mple Meningitis61				1	1		11				. 1
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cute Endocarditis	l			1	l	i	1		;		
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ther Diseases of the Chin and Anners 145		1				٠		••••	•••	•••••	1 1
onconital Debility Tetama and Calarama 181	1 5			••		····		•••	•••!	•••••	
right's Disease 130 ccidents of Pregnancy 134 ther Diseases of the Skin and Annexa 145 ongenital Debility, Icterus and Scierema 151 uicide by Poison 155 urns (Confiagration excepted) 167 ccidental Drowning 168 raumatism by Fall 172 raumatism by Other Crushing (Vehicles)	1	1	·····			٠	····	••••	•••;	•••••	•••
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raumatism by Pall 172 raumatism by Other Crushing (Vehicles,) 175 Railroads, Landslides, etc.) 175			•••••		·••		!		•••	1	· · · ·

Total deaths, 108. Death-rate, 15.41.

in the statistical divisions of the state of new jersey, for december $31,\ 1910.$

	A	3E P	ERIO	Ds.			81	x.	COLOR.					NA	TI	VIT	Y.					C	SOCI ON DI		
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.		_		Ireland.					Kulksia.	Other foreign	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 46.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES. THE YEAR ENDING

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DEATHS IN SUMMIT.	Under one month.	Under 1 year, "not in-	One to five.	3	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.
Typhoid Fever1					I				1		1
Monglon A	1									•••••	
Whooping Cough			1				•••	•••		•••••	
Tuberculous of the Lunes 28			···· ·				";				5
Tuberculous Meningitis			····i	I:::	l:::					2	
Whooping Cough			. .	i	1			1			
Abdominal Tuberculosis. 31 Cancer and Other Malignant Tumors of the Stomach Liver. 40 Cancer and Other Malignant Tumors of the Peritoneum, Intestines, Rectum. 41 Cancer and Other Malignant Tumors of the Skin. 44 Cancer and Other Malignant Tumors of Other Organs or of Organs not Specified 45 Chronic Rheumstiam and Gout 48			 .	١							1
Cancer and Other Malignant Tumors of)				1							-1
the Peritonseum, Intestines, Rectum	·····			٠		•••	•••	•••			
Cancer and Other Malignant Tumors of the Skin44			ļ		١	١					
Cancer and Other Malignant Tumors of	1		l	١	١	l					1
Chronic Rheumatism and Gout48											
Diabetes				1	l						
Alcoholism (Acute or Chronic)56											
Chronic Lead Poisoning		1			٠	ŀ		•••		·····	ļ
Simple Meningitis			1			•••		•••			
Softening of the Brain65	1	•••••					•••	•••			•••
Paralysis Without Specified Cause66											
Other Forms of Mental Alienation68	٠		 		•••						
Neuralgia and Neuritis73	;*****	•••••	ļ		٠.;		•••	•••	-;;	•••••	
Organic Diseases of the Heart. 79		•••••						•••	. 4	····i	
Angina Pectoris80											
Diseases of the Arteries, Atheroma, Aneurysm, etc81				[٠						
Diseases of the Lymphatic System (Lymphangitis, etc.) 84		1					•••	•••	•••	••••	
Pneumonia 92	1	····;	;		•••	ï	1	•••	•••		1
Pleurisy93											
Pulmonary Congestion, Pulmonary Apoplexy 94						٠					
Other Disease of the Persimters System	٠		ļ		٠		•••	•••	•••	••••	
(Tuberculosis excepted)98	1						•••	•••	••••		
Ulcer of the Stomach102			l. 	1	١						 '
Other Diseases of the Stomach (Cancer excepted)103					1	•••	•••	•••	•••		 ,
Diarrhosa and Enteritis (under 2 years)	ļ	7	2				٠	••••	•••	•••••	••• •••
Appendicitis and Typhlitis 108			1					••••	ï	•••••	•••
Hernias, Intestinal Obstructions109			1								
Other Diseases of the Intestines				ļ				•••		1	:
Other Disease of the Dissetty System (Cancer)			·				•••	•••		•••••	1
and Tuberculosis excepted)118			1			٠		•••		•••••	 !
Cancer and Other Malignant Tumors of Other Organs or of Organs not Specified 48 Diabetes				l					1	 .	
Bright's Disease	¦	1				1		•••		ļ	1
Colonii of the Urinery Passages 192				••• -	٠	•••	•••	•••	••••	•••••	!
Gangrene											
Other Diseases of the Skin and Annexa145	1										
Congenital Debility, Icterus and Sclerema	. 8				•••			•		•	
Suicide by Poleon 188					•••	ï		••••		;	•••
Suicide by Hanging or Strangulation									ï		
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in the statistical divisions of the state of new jersey, for december $31,\ 1910.$

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Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Russia.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 46.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES, THE YEAR ENDING

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DEATHS IN SUMMIT.	Under one month	Under I year, "not in-	One to five.	Five to ten.		Fifteen to twenty.	5		Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	
Suicide by Firearms	9			Ī	_	Ī	i	_				•
Suicide by Cuttting or Piercing Instruments16 Other Acute Poisonings16	0 5	*****				2						
Traumatism by Fall	ind.	**** *		2	1		1	1			 2 _.	
Effects of Heat	9	 2				1	:::					

Total deaths, 138. Death-rate, 18.40.

in the statistical divisions of the state of new jersey, for december 31, 1910-Continued.

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Fifty to fifty-five.	Fifty-five to sixty. Sixty to seventy. Seventy to eighty. Eighty to ninety.					Not stated.	Male.	Female.	of dec	figure in	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Russia.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated
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i		Blatty to seventy. Blatty to seventy. Blatty to seventy. Blatty to ninety. Over ninety. Over ninety. Not stated. Not stated. Not stated. Pemale. Female. Female. Color black" designated by figure in this column. Dutted States. Integrated by figure in this column. England. France. France. France. Germany. Italy. Italy. Scotland. Scotland. Scotland. Scotland. Swedland. S									٠			١	2												

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TABLE 47.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES. THE YEAR ENDING

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DEATHS IN TOWN OF UNION.	Under one month.	Under 1 year, "not in-	One to five.	Mye to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Boats they to After
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rysipelas18		·				1				'	۰
urulent Infection and Septichæmia20		,			٠		···¦-,		1		
uberculosis of the Lungs*88		j		١		2		2, 2	5	2	
bdominal Tuberculosis. 31		1			••••			i			
ancer and Other Malignant Tumors of the)		-	,	1		1		,			
Buccal Cavity		· • • • • • • • • • • • • • • • • • • •	!	•••	i	•••	•••	.		'	
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incer and Other Malignant Tumors of the	I		1			١,			,	1	
Peritonæum, Intestines, Rectum		•••••	٠				٠٠٠، ٠٠	-;		•••	
ancer and Other Malignant Tumors of the 42		1	1	!			1	1	l	١,	
Female Genital Organs	• • • • • • • • • • • • • • • • • • • •	;		•••		-:	•	-		•	
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lcoholism (Acute or Chronic)		1		•				· ···	, ,		
imple Meningitis61		. 2				,		1;	٠		
ther Diseases of the Spinal Cord		1							,		
erebral Hæmorrnage, Apoplexy	1			1	, ••••		•••	1	1		
pilepsy				•••	٠			1		1	
onvulsions of Infants71	1	4								·	
iseases of the Ears76	••••	. 1	·			 .	··· ·			• '	
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rganic Diseases of the Heart		· · · · · · · ·		1		ï		1	٠	ίί	
ngina Pectoris 80		. '			ļ					i	
iseases of the Veins (Varices, Hæmorrhoids,)83			1			l'	!				
oute Bronelditis 90			1		1	1	,			•••	
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ther Diseases of the Stomach (Cancer excepted)103		. 1			•			·· ···	1		•
iarrhœa and Enteritis (under 2 years) 104	1	1 16	2	?'	١						
Marrhea and Enteritis (2 years and over)	••••	· ····.	•••••	•••	,						•
ppendicitis and Typniitis	*****	. 1	••••	•	; · · ·		2 .	٠	٠	•••	•
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irrhosis of the Liver118					ļ			· · · · · · · · · · · · · · · · · · ·		• ···	•
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In the statistical divisions of the state of new jersey, for . December $31,\ 1910.$

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Fifty to fifty-five	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Elghty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Russia.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 47.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,
THE YEAR ENDING

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				A G		ER					
PEATHS IN TOWN OF UNION.	Under one month.	Under 1 year, "not in- cluding under 1 mo."	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-nee to lorty.	Forty-five to fifty.
Puerperal Hæmorrhage] .		1'
Puerperal Septichæmia137			l. .			١		1			
Puerperal Albuminuria and Convulsions	. 1		l			1	i				
Gangrene						ا ا					
Congenital Malformations (Stillbirths not included)150		1							1		
Congenital Debility, Icterus and Sclerems	16	ī	1			1		1			
Congenital Malformations (Stillbirths not included)150 Congenital Debility, Icterus and Sclerema	1	l					1	1			
Suicide by Poison						,			1	1	1
Suicide by Asphyxia156						1					
Suicide by Firearms								1		11	
Burns (Conflagration excepted)167			1								
Traumatism by Fall	••••		ī								
Suicide by Poison				1				1			
Traumatism by Other Crushing (Vehicles, Rail-								-1			
road, Landslides, etc.)	•••••	•••••	•••••				•••			••••	
Traumatism by Other Crushing (Vehicles, Rail- road, Landslides, etc.)		8	1	١					l		

Total deaths, 252. Death-rate, 11.99.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER 31, 1910—Continued.

	A	GR P	ERIO	DS.			SE	x.	COLOR.					N	ΑT	IVI	ΤY	•					o	SOC:		۲.
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland,	Italy.	Scotland,	Hungary.	Sweden.	Kussia.	Holland.	Other foreign.	Not stated.	Married	Stagle.	Widowed.	Not stated.
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图图意思

TABLE 48.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,

				GE	P	ER	IOI)S.	_		= -	
DEATHS IN TRENTON.	Under one month.	Under 1 year, "not in- cluding under 1 mo."	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
Typhoid Fever1					4	4	12	7	7	- 8	8	8
Malaria4				1					1		ļ	•••
Measles		1	7		;	•••		ï				
Scarter Fever 8 Whooping Cough 8 Diphtheria and Croup 9 Including Croup 9 A Influenza 10 Dysentery 14	8		14	ï	*	•••	ï	-		•••••	ļ	•
Diphtheria and Croup9		5	îö		ï,	· 2				1		•••
including Croup9 A		2	8									
influenza10				•••	••••	•••		•••	•••	!	٠	- 1
Dysentery 14	1	6	2	•••	•••	•••			ï	1		••
1 1 1 1 1 1 1 1 1 1	•••••	•••••	•••••		•••	ï	•••	•••	-	1		-
Puberculosis of the Lungs28		4	2		ï	14	17	23	24	20	24	
Acute Miliary Tuberculosis29	ļ. .						2	1	1			
Puberculous Meningitis30			2	8		•••	1	1	•••	1	1	
Abdominal Tuberculosis		1	1		2	•••		2	•••	1		
Puberculosis of Other Organs. 34				•••		•••		ï	•••	1		i
Tuberculosis of Other Organs						1			2		1	
Rickets		5										·
Syphilis					١١			•••	1	2		
Jonococcus Injection	•••••			•••	•••	•••	•••	•••	•••			ļ
Stopper and Other Malignant Tumors of the Stopper and Other Malignant Tumors of the Stopper and Other Malignant Tumors of the Stomach Liver 40	ļ										 	·
Cancer and Other Malignant Tumors of the				i							١.	٠.
Stomach, Liver				•••	•••	•••	•	•••	•••	3	1	1
Cancel and Conel Mankhant Lumbis of the												1.
Peritonseum, Intestines, Rectum		1					1				i	1
Cancer and Other Malignant Tumors of the Female Genital Organs							•••	1			1	1 :
Cancer and Other Malignant Tumors of the										ł	١.	1
Breast	•••••	•••••	•••••		••••	•••	•••	•••	•••	•••••	1	1.
Cancer and Other Malignant Tumors of the 1				ĺ						l	l	1
Skin									•••		ļ	1.
Cancer and Other Malignant Tumors of Other Organs or of Organs Not Specified											3	ġ
Other Tumors (Tumors of the Female Geni-)				ł						ì	1	
Other Tumors (Tumors of the Female Genital Organs excepted)				···	•••		•••	•••	•••	•••••	¦•••	•
Acute Articular Rheumatism47											2	
Diabetes	ļ			ï			ï	•••	1	2	2	1
Anemia, Chlorosia			ī	, 1	•••	••	•	•••	-		¦	
Other General Diseases		l	l î								3	
Encephalitis60			1	١							l	1
Simple Meningitis61	1	8	8			2	ļ	2	, 1	1	1	
Including Cerebro-spinal Fever		1	1	¦•••	1			•••	•••			1
Encephalitis 61 Simple Meningitis 61 Including Cerebro-spinal Fever 61 A Oction Diseases of the Spinal Cord 63 Cerebral Hemorrhage, Apoplexy 64 Softening of the Brain 65 Feerburk Without Specified Course 65		î		•••			. *	ï		9	×	, ,
Softening of the Brain65				١	l:::	I				2	1	
							•••			2	4	ı
General Paralysis of the Insane						 			٠.;	2 2 2		
Other Forms of Mental Alienation	•••••			i			•••	1	ı	2	12	
	R	5	2	•••			• • • • •				1	
Convulsions of Infants. 71	, ,	1	l	١	ï					l	!	
Convulsions of Infants	·										1	
Convulsions of Infants		ï		ļ	١	ļ	•••		1			
Convulsions of Infants		1					•		1			-
Convulsions of Infants		1 2		8	4 2	 1 5	 1 1	1	6	5	27	

in the statistical divisions of the state of new jersey, for december $31,\ 1910.$

	A (3E P	ERIO	DS.			88		COLOR.					N	AT	IVI'	TY						α	SOCI SOCI	AL TION	ī.
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Elghty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	1 Italy.	Scotland.	Hungary.	Sweden.	Russia.	Holland	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stoted
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TABLE 48.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES. THE TRAE ENDING

				\GI	P	ER.	IODE	3.			
Diseases of the Arteries, Atheroma, Aneurysm, etc. 81 Embolism and Thrombosis. 82 Diseases of the Lymphatic System (Lymphangitis, etc.) 84 Hæmorrhage; Other Diseases of the Circulatory 85 System 87 Diseases of the Larynx 87 Diseases of the Larynx 87 Diseases of the Thyreoid Body 88 Acute Bronchitis 89 Chronic Bronchitis 90 Broncho-Pneumonia 91 Pneumonia 92 Pleurisy 93 Pulmonary Congestion, Pulmonary Apoplexy 93 Pulmonary Congestion, Pulmonary Apoplexy 94 Gangrene of the Lung 95 Asthma 96 Other Diseases of the Respiratory System 98 (Tuberculosis excepted) 98	Under one month.	Under 1 year 'not in- cluding under 1 mo."	One to five.	Five to ten.	Ten to fitteen.	Fifteen to twenty.	Twenty to twenty-five.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty
Diseases of the Arteries, Atheroma, Aneurysm, etc 81	•		ļ	Ι	_						1
Embolism and Thrombosis82	···· ··	ļ			;l				,•••••	!	
phangitis, etc.)			1		''		-		1	•••	••
Hæmorrhage; Other Diseases of the Circulatory 85		1	l		Ì		j.		1 [• • • • • •		
Diseases of the Larynx87			l		اا	1	1				
Diseases of the Thyreoid Body			·····			•••	٠١.]	•••	••
Chronic Bronchitis90		ı					••••				
Broncho-Pneumonia91	3	25	12	1				1 1	1	1	
Pleurisy93		1	1	1				9 10		2	
Pulmonary Congestion, Pulmonary Apoplexy94	, 8					•••		1	2	ا!	
Asthma96	!	·			ا ۰۰۰۰	•••		•••••	,	1	•
Other Diseases of the Respiratory System (98	, !				:		1		1		
(Tuberculosis excepted)	1				١		1	11	1	•••	٠,
Other Diseases of the Stomach (Cancer excepted)103	8	12	3	i	ļ						
Diarrhœa and Enteritis (under 2 years)	14	137	32	1	٠	•••		باب			
Intestinal Parasites107	• • • • • • •	1		1	٠	•••			2		
Appendicitis and Typhlitis		·	. 1	1	•••	3	1	2 1	1	:	
Other Diseases of the Intestines		1	2	1		•••		2	2		
Cirrhosis of the Liver113			ļ		٠						į
Simple Peritonitis (Non-Puerperal)115	2		1		•••	•••	1				••
Other Diseases of the Digestive System (Cancer) 118					٠			•	1	••••	
Acute Nephritis 119			,,		1	•••			,		•
Bright's Disease120	1		2	î		2	8	ï 8	6	6	- 3
Other Diseases of the Kidneys and Annexa	•••••	·····	¦		•••	•••				1	••
Diseases of the Prostate126			ļ								
Non-Venereal Diseases of the Male Genital Organs127		ļ				•••			ļ	٠ا	1
Cysts and Other Tumors of the Ovary		· · · · · ·		:::				·· ···	1	·	. :
Salpingitis and Other Diseases of the		·	 			1	•••	1	1	 .	
Accidents of Pregnancy	! 	1	1				1!	3	3	1	
Puerperal Hæmorrhage	,		}	ļ	•••	•••	8	1 1	1		•••
Puerperal Septichemia				1		2	4	3 3		ï	••
Puerperal Albuminuria and Convulsions138		1			•••			2, 2	i		١
Acute Abscess. 144		·	····		•••	•••	••••		; 1	•••	
Other Diseases of the Skin and Annexa145	ī	i						,			
Pulmonary Congestion, Pulmonary Apoplexy. 94 Gangrene of the Lung. 95 Asthma. 96 Other Diseases of the Respiratory System (Tuberculosis excepted). 98 Ulcer of the Stomach. 102 Other Diseases of the Stomach (Cancer excepted). 103 Diarrhœa and Enteritis (under 2 years). 104 Diarrhœa and Enteritis (2 years and over). 105 Intestinal Parasites. 107 Appendicitis and Typhiltis. 108 Hernias. Intestinal Obstructions. 109 Other Diseases of the Liver. 115 Oingle Peritonitis (Non-Puerperal). 117 Other Diseases of the Digestive System (Cancer) and Tuberculosis excepted). 118 Acute Nephritis. 119 Bright's Diseases. 120 Other Diseases of the Kidneys and Annexa. 124 Diseases of the Bladder. 124 Diseases of the Bladder. 124 Diseases of the Prostate. 126 Non-Venereal Diseases of the Male Genital Organs. 127 Uterine Tumor (Non-Cancerous). 129 Usysts and Other Tumo			2		•••	•••	1.			•••	
Congenital Debility, Icterus and Sclerema	111	11	ļ			•					٠
Other Diseases Peculiar to Early Infancy	1	6	į .		•••	•••		'	ļ	,	••
Senility		• • • • • • • • • • • • • • • • • • • •				·				•••	i
Suicide by Poison	į		····	ļ	•••	•••	1.		1 3	1	٠.,
Suicide by Hanging or Strangulation157		· · · · · · · · · · · · · · · · · · ·	2				ï.	i			••
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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER 31, 1910—Continued.

	ΑG	E PI	ERIOI	ж.	=		SE		COLOR.					NA	TI	VIT	Y.			_			co	SQCIA	L ION	,
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Russia.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 48 .- TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES. THE YEAR ENDING

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				∆ GI	P	ERIC	DB.		
DEATHS IN TRENTON.	Under one month.	Under 1 year, "not in- cluding under 1 mo."	One to five.	Five to ten.	Ten to fifteen.	Pitteen to twenty. Twenty to twenty-five.	Twenty-five to thirty.	Thirty-five to forty.	Forty to forty-five.
Suicide by Firearms	_			 1	2 8 1	1 1		1	2 1 1 1 1 1 1 1
Effects of Heat 179 Homicide by Fireagms 183 Homicide by Other Means 184 Other External Violence 186 Cause of Peath not Specified or Ill-defined 189	1	2		`i			1	1	2

Total deaths, 1,969. Death-rate, 20.34.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER 31, 1910—Continued.

	AG	E P	ERIO	DS.			82	X.	COLOR.					N.	ATI	VI:	ΓY.						cc	BOCI NDI		
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Maie.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Itlay.	Scotland,	Hungary.	Sweden,	Russia.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 49.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES. THE YEAR ENDING

						ER				•	
Tuberculosis of the Lungs 28 Tuberculous Meningitis. 80 Cancer and Other Malignant Tumors of the Stomach, Liver. 29 Cancer and Other Malignant Tumors of the Breast 43 Cancer and Other Malignant Tumors of Other Organs or of Organs not Specified 51 Simple Meningitis 61 Cerebral Hæmorrhage, Apoplexy 64 Softening of the Brain 65 Paralysis Without Specified Cause 66 Other Forms of Mental Allenstion 65 Epilepsy. 66	Under one month.	Under 1 year, "not in-	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Thirty to thirty-five.	Thirty five to forty.	Forty to forty-five	Forty-five to fifty.
Tuberculosis of the Lungs 28	i	.i	l	i				3 1	٠		1
Tuberculous Meningitis80	·		1	1	١					,	
Cancer and Other Malignant Tumors of	,i	1	ļ	1 !	!	: 1		- 1	į		
the Stomach, Liver		• •••••			i	ا…ا					1
Cancer and Other Malignant Tumors of \	i		١					- 1	ļ	٠,	
the Breast	1								ļ	'	•••
Cancer and Other Malignant Tumors of	.	Ì						1	1	i	
Other Organs or of Organs not speci-	·	•	•••••		•••		••••	•••	,		•••
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Carebrel Hemorehere Apoplary	, 	• • • • • • •	1		••••	••••	•••			1	•••
Softening of the Brein		• : • • • • • • • • • • • • • • • • • •			' • • • •		•••			1	•••
Paralysis Without Specified Cause 86		· ; •••••			ļ	1	•••		; ••••	1	•
Other Forms of Mental Alienation 68						•			1	••••	•••
Epilepsy				ï						•••	;
Acute Endocarditie 78	3			1				1!	i 1	: i	•••
Organic Diseases of the Heart 79	٠	. 1							1	1	
Acute Endocarditis)¦	.1								1	
Diseases of the Arteries, Atheroma, Aneurysm, etc81	·				١	اا	•••			!	
Acute Bronchitis89)	. 1		J	٠	!				.i'	•••
Broncho-Pneumonia91	٠				١	· '	'			•••	•••
Pneumonia99		1	1	ļ 1			•••;		1		
Pleurisy		• ;		1			••••		•••••	¦	1
Diamb me and Entertie (under 0 meet) 103		네 ‡]	٠	····i	••••		•••••	***	•••
Angina Pectoris. Boseases of the Arteries, Atheroma, Aneurysm, etc81 Acute Bronchitis	, •••••		1				,	!		· · · · ·	••
Cirrhogic of the Liver 113		• •••••		1	! · · ·		•••;	•••,•••		. ' '	•••
Acute Nenhritis 119		,			••••	,	•••	•••;•••			•••
Bright's Disease 120					•••	i ii	••••		1 4		•
Diarrness and Entertus (2 years and over) 103				1		-			1		•••
Puerperal Hæmorrhage135				1				i			
Puerperal Septichæmia137	١		l	I					1	1	
Puerperal Albuminuria and Convulsions138	B				١	اا	····		. 1	١,	
Puerperal Remorrnage 130	μ ;	<u></u>					••••	1		٠	
Lack of Care		1	···				••••	•••,			
Suicide by Asphyxia156	1	•			•••	ļ	•••		·	•	•
Other Friedrick Wilders			·····	···	, •••		•••		,,	- ;	•••
Other External Violence 186 Cause of Death Not Specified or Ill-defined 186	·	• • • • • • • • • • • • • • • • • • • •		···	٠	;	•••		•••••	٠	
Cause of Death Not Specified of In-defined188	• • • • • • • • • • • • • • • • • • • •	<u> </u>		1	٠		•••		•••••	• ' • • •	·

Total deaths, 78. Death-rate, 12.15.

in the statistical divisions of the state of new jersey, for december 31, 1910.

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Fifty to fifty-five.	Fifty-five to sixty.		Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Russia.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 50.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES.

THE YEAR ENDING

	1		A	GE	P	ER	101	16.		_	
DEATHS IN WEST HOBOKEN.	Under 1 month.	Under 1 year, "notin-	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five. Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
Typhus Fever2					l	1	i	11			
Measles 6 Scarlet Fever 7 Diphtheris and Croup 9 Including: Croup 9 A Tuberculosis of the Lungs 28 Acute Miliary Tuberculosis 29 Tuberculous Meningitis 30 Abdominal Tuberculosis 31 Disseminated Tuberculosis 35 State Tuberculosis 35	1		8 1 7 1	2 3 	; ;	3			7	3 3	
Tuberculous Maningitis		¿	ļ <u>.</u>		·;	· • • •	٠		··· ; ····	•• (•••	1
Tuberculous Meningitis		, ,	i	} ;		 	 	l	••••	i	
Cancer and Other Malignant Tumors of the				. !	ļ				1		•
Stomach, Liver					····				•		. 1
Female Genital Organs. Cancer and Other Malignant Tumors of the Breast.					ļ					·· , ·-	. 1
other Tumors (Tumors of the Female Geni- tal Organs excepted)		•	ļ								١
Addison's Disease,					 		,		i		
Anæmia, Chlorosis								!		i ·	i
Other Diseases of the Spinal Cord			;			ļ					
Paralysis Without Specified Cause						1	1				. 3
Convulsions (Non-Puerperal)	2	2					1				
Diseases of the Ears							• • • •				
Organic Diseases of the Heart	(2		1	ï	ï	3	1	5 i	
Diseases of the Arteries, Atheroma, Aneurysm, etc81				••••	ļ	-;				j	i
Acute Bronchitis		2	1			¦	ļ				•
Broncho-Pueumonia	2	7	5								
Pleurisy 93			i		ļ .	2		. <u>.</u>			•
Other Diseases of the Respiratory System (Tuberculosis excepted).					 			<u>'</u>		·· .··	•
Diarrhoa and Enteritis (under 2 years)	1 2	19		¦						·	
Hernias, Intestinal Obstructions			, 1					1		. i	 1
Other Diseases of the Liver	j		' '	·		ï	' ,			i	
Other Diseases of the Kidneys and Annexa			······		-			 		z, 1	
Accidents of Pregnancy				-		-		i	ï	1	
Puerperal Septichæmia137								1	•••	2	

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER 31, 1910.

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Fifty to fifty-five.	Fifty-five to staty.	Sixty to seventy.	Seventy to eighty.	Elghty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	sweden	Russia.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 50.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES, THE YEAR ENDING

				-	B P						-	==
DEATHS IN WEST HOBOKEN.	Under one month.	Under 1 year, "not in- cluding under 1 mo."	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
Puerperal Diseases of the Breast141				<u> </u>	Ìİ	-	-					_
Other Diseases of the Skin and Annexs	1 1	1		١							i	
Congenital Malformations (Stillbirths not included)150 Congenital Debility, Icterus and Scierema		1	ļ . .	٠		•••	•••					
Congenital Debility, Icterus and Scierema151	20	2		ļ		•••	•••	••••		•		
Other Diseases Peculiar to Early Intancy	1	. 4		٠	•••	•••	•••	•••				•
Senility			•••••	•••		•••	•••	•••	•••	•••••	j	•
Quicide by Aenhyvie 188				•••		•••	•••				!	
Spicide by Hanging or Strangulation 157						•••	•				!	•••
Suicide by Asphyxia	,									i		
Burns (Conflagration excepted)167				2					2		1	
Absorption of Deleterious Gases (Conflagration)	d.	ł		i						,		
excepted)	1		•••••		'''					i		
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road, Landslides, etc.)		J		l		1						
Ill-Defined Organic Disease	1											•••
Ill-Defined Organic Disease	l	6	2	۱	اا			١	١			

Total deaths, \$86. Death-rate, 10.90

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY, FOR DECEMBER 31, 1910—Continued.

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Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Russia	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 51.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,
THE YEAR ENDING

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DEATHS IN WEST NEW YORK.	Under one month.	Under 1 year, "not in- cluding under 1 mo."	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	: Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
Typhoid Fever1				_				_			-	-
Measles 6	1		. 2									
Scarlet Fever			1		1			١				
Whooping Cough8		1	1	٠			•			•••••		• • • •
Including Croup.		•••••	9	7	1		ξ	•••	•••	•••••		
Dysontary 14	•••••	8	•	•••		***	•••			•••••		
Ervsipelas 18		ľ				:::				••••		
Tuberculosis of the Lungs			1			2	2	3	2	6	7	".,
Tuberculous Meningitis30			2					1				
Cancer and Other Malignant Tumors of the \ 39	1					. 1						
Whooping Cough.			•••••	'''			-			••••		•••
Stomach, Liver		•••••	•••••	^-			•••	••••	•••	•••••	•-•	•••
Stomach, Liver. Cancer and Other Malignant Tumors of the Peritonæum, Intestines, Rectum								1				•
Cancer and Other Malignant Tumors of the \	-		i		1					9		
Female Genital Organs			l						•••	4	•	•••
Diabetes		•••••	•••••		•••	•••	•••			1		•••
Chronic Lead Poisoning		•••••	l;	٠	·;			•••	1	*****		•••
Simple Meningitis					1.*		•••	•••		•••••	••••	•••
Convulsions of Infants71	1	1		١								•••
Cerebral Hæmorrhage, Apoplexy 64 Convulsions of Infants 71 Acute Endocarditis 78 Organic Diseases of the Heart 78				1			1					
Organic Diseases of the Heart	1			ļ			1				1.	
DISCRETE OF CIG PROPERTY OF COMMENTS OF CO												
Acute Bronchitis	1					•••			•••			•••
Pneumonia. 98	1	1	9				";	";	";	•••••	1	•••
Pulmonary Congestion, Pulmonary Apoplexy94		·		1								•••
Other Diseases of the Respiratory System (Tuberculosis excepted)	1	1		"					1			•••
(Tuberculosis excepted)					ļ		•••			•••••		•••
Other Diseases of the Stomach (Cancer excepted)103	ļ,	1	٠		ļ	ļ					· '	•••
Diarrhoea and Enteriors (under 2 years)		8	2					ļ		•••••		•••
(Tuberculosis excepted). 108 Other Diseases of the Stomach (Cancer excepted). 108 Diarrhoes and Enteritis (under 2 years). 104 Hernias, Intestinal Obstructions 119 Other Diseases of the Intestines. 114	1 4	1		١			•••			•		
Cirrhosis of the Liver.							•••					1
Acute Nephritis				ļ					١	ï		
Bright's Disease120	·	1		ļ		 		١	١	1		1
Other Diseases of the Intestines 110 Cirrhosis of the Liver 113 Acute Nephritis 118 Bright's Disease 120 Gangrene 143 Conceptial Debility Leterus and Salarama 151		ļ <u>.</u>		ļ				١	ļ			
Congenius Debinty, Icterus and Sciercus	1	1 *		١	1	1					•	•••
Schillery		1		1	1	1	ı		1:;			•••
Seniity Seniity Seniity Seniity Seniity Suicide by Poison 155 Suicide by Asphyxia 156 Other Acute Poisonings 168 Accidental Drowning 168 Traumatiam by Fall 172 173 174 174 175				:::	1			ï	١			
Other Acute Poisonings168							ļ		١		1	
Accidental Drowning169					ļ				J	1	ī	1
Traumatiam by Fall					ļ							
Traumatism by Other Crushing (Vehicles, Rail- roads, Landslides, etc.)			1	١	١	١	١	١	١			
roads, Landslides, etc.)			l									

Total deaths, 169. Death-rate, 12.46.

in the statistical divisions of the state of new jersey, for december 31, 1910.

	AG	E PI	BIOI	08.			82		COLOR.				_	N.	ATI	VI	ry.		_				cc	SOCI.		=
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Elghty to ninety.	Over nihety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Russia.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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TABLE 52.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,
THE YEAR ENDING

•							ER						
DEATHS IN WEST ORANGE.		Under one month.	Under 1 year, "not in- cluding under 1 mo."	One	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
Measles Whooping Cough Influenza	.6			1						_		-	-
Whooping Cough	8	l	1								•••••		
Influenza1	10 .								!		•••••		
										!			
Erysipelas	18	1								!	••••		
Tuberculosis of the Lungs	28	••••				•		•••	8	1:	2		2
Acute Miliary Tuberculosis	29 .						1						
Tuberculous Meningitis	30].		1	2		 							
Tuberculosis of Other Organs	34 .						l			1			
Cancer and Other Malignant Tumors of the Stomach, Liver	40						1 1					1	
Stomach, Liver	* U .	••••					[]	•••		•••		!	•••
Cancer and Other Malignant Tumors of the	40			i					1				
Female Genital Organs	- 0	•••••			•••	•••		•••	•••			•••	•••
Cancer and Other Malignant Tumors of)					1		i i				1 1		
Other Organs or of Organs not Specified	∍ o∣.	•••••				•••		•••	•••	•••	•••••	•••	•••
Simple Meningitis	61 .		1	١		١	١١	١				- 1	
Cerebral Hæmorrhage, Apoplexy	64	1	l ī			١						1	·;
Paralysis Without Specified Cause	₿l		ļ			1						-	í
Acute Endocarditis	78		1			1	1						•
Other Organs or of Organs not Specified Simple Meningitis Cerebral Hæmorrhage, Apoplexy Paralysis Without Specified Cause Acute Endocarditis Organic Diseases of the Heart	79		I				11					•••	٠:;
Broncho-Pneumonia	91			2		1	1					•••	•
Pneumonia	92			ļ .	1		1					•••	•••
Pleurisy	93			1								•••;	•••
Broncho-Pneumonia Pneumonia Pleurisy Asthma	BB	••••		-				•••				•••;	•••
Other Diseases of the Respiratory System (Tuberculosis excepted)		-										•••	•••
(Tuberculosis excepted)	98	1					•••	•••					
Other Diseases of the Stomach (Cancer excepted) 16	0.8		ł	1		1				1			
Diarrhes and Enteritis (under 2 years) 10	04	•••••	4	l î				l		••••		••••	•••
Hernias Intestinal Obstructions 16	ดืดิ		_	-	: •••	l		٠		***		•	••
Cirrhosis of the Liver1	13				••••					••••		•••	•
Acute Nephritis1	19				···	١		١		•••	*****	•••	•••
Bright's Disease	20			•••••	į	١	1						•••
Puerneral Albuminuria and Convulsions 1:	38	•••••					•			1	-	•••	•••
Congenital Debility Icterus and Sclerems 1/	51	7				•••		٠		-		•••	•••
Senility 1	54	•	-						1		•••••	••••	•••
Acute Nephritis. 1 Puerperal Albuminuria and Convulsions. 1: Congenital Debility, Icterus, and Scierema 1: Senility 1 Absorption of Deleterious Gases (Conflagration excepted) 2 Accidental Drowning. 1 Cause of Death not Specified or Ill-defined 1:	-	•••••	1		•••		•••			••••			•••
arcented)	68				٠				١	····	۱۱		
Accidental Drowning	aa		1	١,		١,	,		1		١ '	-	-
Cause of Deeth not Specified or Ill-defined	20		•	4	, ••••	1		•••	١	•••			•••
Cause of Death not opening of In-defined	90	•••••	. 1		•		• • • •		٠	٠ ا	1	•••	

Total deaths, 95. Death-rate, 8.65.

in the statistical divisions of the state of new jersey, for december $31,\ 1910.$

	AG	E P	ERIO	D8.			8E	x.	COLOR.					N	ATI	VI	ry.						cc	SOCI NDI		_
Fifty to fifty-five.	Pifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Number of decedents "color black" designated by figure in this column.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungery.	Sweden.	Russia.	Holland.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.
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INFECTIOUS DISEASES REPORTED FOR EACH QUARTER DURING THE YEAR ENDING JUNE 30, 1911.

NAME OF SANITARY DISTRICT.	D	IPHT	HER	IA.			RLEI VER.	•		TYP	HOI		SM	[AL]	ŀ₽0	x.
DISTRICT.	1	2	8	4	1	2	8	4	J	2	3	4	1	2	3	4
Absecon Town		8	1							1		2				
Absecon Town	6	7	18				4		••••		1					
Allemuchy Township		·····		····i		•	1	•••••	••••	****	****	*****				
Alexandria Township		1								*****						
Alloway Township			2		1					*****	****					
Andover Borough		····i	1			•••••		•••••	***		****		*****			
Asbury Park City	<u></u> 2	8	8	2	ï	2	7	6	5	2	2	1				
Atlantic City	12		28	18	4	12	12		28	18	4	2	ļ			
Atlantic Highlands Borough		1	•••••	1 2		•••••	i	1	1	1	-++	1		••••		
Bay Head Borough			1	-							****					
Bayonne City	49	109	75	27	25	22	24	40	1	5	****					
Bedminster Township Belleville Township	1 9	4	1	 5		;	3	9	1 2	3	****					
Belmar Borough		-		اا			18		1	1		2				
Belvidere City					1				1	2					 	
Berkley Township						•••••		4				1				
Berkley Township	<u></u> 2	14	ï			1	2	4	ï	2					I	
Bethlehem Township		1		1			1			.,,,,	****					
Blairstown Township		· ••••	•••••						ï	1			••••			
Bloomfield Town	2	6	7	7		9	9	18	1	1	*****	1				-
Bloomsbury Borough	<u>-</u>		ļ			1										
Boonton Town				2		8	8	1	1							ļ
Bordentown City Bordentown Township	1	16	6	1		2	1		2	4	3	1				
Bound Brook Borough	1			2		1	3	1	2			2				
Bradley Beach Borough		ļ		1		•••••		1			****					
Branchburg Township Branchville Borough				1	"ï	•••••	8	····i	2	*****	*****				•••••	
Deine Township							ĭ		3	5		1				
Bridgeton City	5	30	18	9	1	7	8	8	7	12	7	1	,			
Bridgewater Township Buona Vista Township	"ï	1	····i	1		•••••	9 10	1	***	2	****	····i				
Bridgeton City	i	5		8			5	2	11	3						
Burlington Township		 					2			****	*****					
Butler Borough Byram Township	i	₂				•	1	•••••	••••							
Caldwell Borough		. 2		1		1	8		1		1					
Camden City	41	84	58	61	10	43	23	19	12	9	3	2			1	1
Cape May City Carlstadt Borough	i	2	1 2			1	1	1	3							
Cedar Grove Township						1	2			*****						
Centre Township				4	8				1	1	****	1			 	
Chatham Borough	<u>-</u> 1		 				1		••••							
Chatham Township Chester Township (Bur.) Chester Township (Mors.)	2	10	7	4	2	2	8			H	1					
Chester Township (Mors.)												1				
Chesterfield Township Cinnaminson Township		•••••	1	····i		••••		1	***							
Clayton Borough		3					ï		4	1	****					
Clementon Township		2	2		1	1		1				1				
Cliffside Park Borough Clinton Township	8	1	5	1			··· ··	1	ï	D			,		 -	
Closter Borough				1	1				1	3	1				<u> </u>	
Collingswood Borough	1		4	4			4	2		3	2					
Commercial Township	1	4	·····	8			1		••••	****	****				·····	
Cranbury Township	<u>-</u> 1	1 8	1			8	6	ıi	1		1	1				
Cresskill Borough			1								ļ .				ļ	
Deerfield Township	;	1	6	2		6	7		4		 -					
Delaware Township (Cam.) Delford Borough	1		2				2	ï	4	<u>2</u>						
Delran Township		1		1	1		ī		ī				•		<u> </u>	
Demarest Borough	1 1	1	1	II	1		1	1	II	·	١	1	1	١	١	i

INFECTIOUS DISEASES REPORTED FOR EACH QUARTER DURING THE YEAR ENDING JUNE 30, 1911—Continued.

NAME OF SANITARY DISTRICT.	D	IPHT	HER	IA.			RLET VER,		1		HOI VER		8M	ALI	-P0	X
	1	2	8	4	1	2	3	4	1	2	3	4	1	2	3	
Deptiord Township	1		1	1		2	1		4							
Pover City Pover Township	4	8	6		6	8	2	7	4	4	****	*****	*****	*****	*****	
Over Township	1								1		1	2				
owne Township			1						****		*****					10
Oumont Borough		2	3	6	1	1	6	8	****	1	****		****		****	**
Ounellen Borough Cast Brunswick Township		•••••	ľ	i			î	1	*****	*****	*****			Med.	*****	-
ast Greenwich Township			l ī						1	4						
last Newark Borough	2	8	8	4	7		5	1	*****	*****		*****	****	****	****	-
ast Orange City	6	85	26	22	9	25	- 56	37	10	11	1	3	****	****		-
ast Rutherford Borough	1	4	2	1	1	2	1	*****	1		*****		****	****		
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INFECTIOUS DISEASES REPORTED FOR EACH QUARTER DURING THE YEAR ENDING JUNE 30, 1911—Continued.

NAME OF SANITARY DISTRICT.	D	IPH1	HER	IA.			RLET VER.	r		TYP FE	HOI VER		SM	IAL	L-PC	ox.
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INFECTIOUS DISEASES REPORTED FOR EACH QUARTER DURING THE YEAR ENDING JUNE 30, 1911—Continued.

NAME OF SANITARY DISTRICT.	D	IPHT	HER	IA.			RLET VER.	'			HOI VER		SM	ALI	P0	X
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fillburn Township		····i	•••••	1		;	1	•••••	2	8	•••••		•••••	٠	•••••	1.
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ew Brunswick City		4	3	5		8	8	45	1	8		1	1	٠		
ew Providence Borough		2				1					1					
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orthampton Township	••••	•••••	2	2			3	1	'		6					
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INFECTIOUS DISEASES REPORTED FOR EACH QUARTER DURING THE YEAR ENDING
JUNE 30, 1911—Continued.

NAME OF SANITARY DISTRICT.	DIPHTHERIA.			SCARLET FEVER.				TYPHOID FEVER.				SMALL-POX.				
DISTRICT.	1	2	3	4	1	2	8	4	1	2	8	4	1	2	3	4
Prospect Park Borough	2	. 10	1	8	2	1	1	26							,	
Rahway City		5	8	7		2	16	80		4	2					
Randolph Township			•••••	•••••	2	•••••	4 8	2 1		••••					••••	
Raritan Borough	3	1	•••••		1	•••••		1	1	••••	1			••••	••••	
Raritan Township (Hun.) Raritan Fownship (Mon.)	••••	2	····1			2		1								
Readington Township			2				1									
Red Bank Town	2	2	5	6	1	1	2	2		2						
Ridgefield Borough	2	8	1	7				2						••••	••••	
Ridgewood Village	1	1	6	2		8	8 7	1 1		2	· ·	····i			••••	
Riverside Borough	••••	8	2	2	ï	i	í	"i		••••		i				•
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Riverton Borough			2 1						J							
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Roselle Borough	3	7 2	2	1	2	8	21	*						••••	••••	
Roselle Park Borough		22	2	2	í		5	1								1
Roxbury Township	7	1			2		10									
Rutherford Borough	••••	8	3	1	4	1	6	14	1	1		2				
Saddle River Borough	••••			•••••				•••••	1				••••	••••		
Saddle River Township	. ¨ï	2	9		1	•••••	5	•••••	ï					••••	••••	
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Secaucus Borough	1					8	4									
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Southampton Township South Amboy City	••••	5		2	***	*****	•••••	2	4	3				••••		••••
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South Orange Village	1	1	1			5					4	2				ļ
South River Borough	••••	•••••	3		••••	1	8	1	5		••••	•				
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Union Township (Ber.) Union Township (Hun.) Union Township (Ocean) Union Township (Union) Upper Freehold Township	1				11	i	·									
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INFECTIOUS DISEASES REPORTED FOR EACH QUARTER DURING THE YEAR ENDING JUNE 30, 1911—Continued.

NAME OF SANITARY DISTRICT.		DIPHTHERIA.				SCARLET FEVER.				TYPHOID FEVER.				SMALL-POX.			
DISTRICT.	1	2	8	4	1	2	8	4	1	2	8	4	1	2	8	4	
Washington Borough		 .	1	l		8	1			- 5	1	1					
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West Milford Town		1	10	2		7	20		9			-			•••••		
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West Orange Town	4		î	2	8		27		2	*****			ļ				
West Windsor Township	2		2	1 1	1 0	í		آم ا			*****		ļ			••••	
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Woodbridge Township	1	11	1			5			3	1		151			•••••		
Woodbury City	8	2		2		2	4	1	4	-	1	2					
Woodcliff Borough	6					'					****	444					
Wood Ridge Borough		2				;				ļ							
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Total cases reported by				l	11			l	11	l				١ ـ	۱	١.	
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Total cases reported by	1	i	1	l			l l	I	11	1				1	ĺ	١.,	
year	٠	٠٠٠٠٠	٠	5884	il	١	I	5885	! 1	١	١	1617	II	l	١	47	

List of Licensed Health Officers and Sanitary Inspectors.

Following is a list of the persons who have successfully passed the examinations provided for in the act approved April 8th, 1903:

HEALTH OFFICERS.

17. 11. 12. 12. 01.	
†Budd H. Obert	
†Hiram Williams, M.D	
Alex. Marcy, Jr., M.D	Riverton, N. J.
†Wm. S. Green, M.D	Paterson, N. J.
Walter Taylor, M.D	Jersey City, N. J.
Maria M. Vinton, M.D	East Orange, N. J.
†Edward Guion, M.D	Atlantic City. N. J.
†Fred W. Sell. M.D.	Rahway N J
Howard L. Baumgartner	Ashury Park N J
Lewis L. Sharp, M.D	
†Ferdinand N. Sauer, M.D.	Jargay City N J
†George T. Tracy, M.D.	
†Chester H. Wells	Montolair N I
†Duncan W. Blake, Jr., M.D.	
Samuel D. Mayhew, M.D.	
†John O'Brien, Jr	Montelain N T
†James A. Exton, M.D.	
Frank H. Streightoff	
G. W. Fithian, M.D	
†Henry MacDonald	
†Leon R. Thurlow	
†Edward B. Rogers, M.D	
†J. I. Hoverder, M.D	
W. U. Kurtz, M.D	
John K. Adams, M.D	
William W. Brooke, M.D	Bayonne, N. J.
†Thomas J. Duffield	Asbury Park, N. J.
Henry D. Abbott, M.D	Bayonne, N. J.
Eugene H. Sullivan	Orange, N. J.
†J. Alex, Browne, M.D	Paterson, N. J.
Perkins Boynton	Little Falls, N. J.
Ellsmore Stites, M.D	
†Marcus W. Newcomb, M.D	Burlington, N. J.
Charles P. Eaton	Jersey City, N. J.
tV. M. D. Marcy, M.D.	
Milton L. Somers, M.D	
†Harry H. Petit. M.D.	Ridgewood, N. J.

[†] In the service of the local board of health. ‡ Deceased.

[†] In the service of the local board of health.

Charles M. Whelan	Trenton, N. J.
†William F. Brode	Atlantic City. N. J.
†Thomas D. Clark	Woodbury, N. J.
†Thomas D. ClarkEdward J. Kelly	Jersey City, N. J.
Thomas F. Harris	Orange N I
†G. H. Soult	
Henry A. W. Smith	
Hugh F. Parle	
R. LeRoy Skillman	
Andrew McGookin, Jr	
Frederick W. Nichols	
Luke J. Devine	Elizabeth, N. J.
James Barnard	
Frank H. Fitzgeorge	Trenton N J
George F. Shafer	
Charles F. West.	Clausester City N T
Bernard B. Reiley	
P. W. Borrows	
Arthur G. Reeves	Cape May City, N. J.
James H. Kiernan	
Edward A. Sullivan	Newark, N. J.
Gustave A. Albiez	Newark, N. J.
William F. Specht, Jr	Atlantic City. N. J.
Jacob Kull	
Eugene Lau	
Deter A Desert	Nome of N. T.
Peter A. Degnan	Newark, N. J.
David Entwistle	
Tunis Looi	
James A. Marnell	
Rudolph Riemenschneider	Town of Union, N. J.
W. J. Large	Vineland, N. J.
Charles Steller	
Martin D. Karl	Garfield N. J.
Adam J. Hammer	
Leavett F. Kelley	Namer N T
W. George Lambert	Divoraido N T
W. George Lambert	Tamam Clam NY T
Martin V. Driscoll	Jersey City, N. J.
Herbert J. Mason	Vineland, N. J.
Charles F. Shaw	
William F. Ziegler	West Hoboken, N. J.
Archibald A. Kafer, Jr	Bordentown, N. J.
Edward A. Dugan	Gloucester City, N. J.
Cornelius V. Carty	East Rutherford, N. J.
Frederick J. Dyer	Grantwood, N. J.
Frank S. Kievitt	
G. E. Bangs	West Hoboken N J
Jason H. Wildrick	Washington N I
Clarence B. Slack	Tranton N. T
District D. Slack	Denete N. J.
Richard W. L. Osthoff	
Joseph M. Loeffler	Newark, N. J.
George M. Crawley, Jr	Newark, N. J.
Conrad C. Hoffmeier	West Hoboken, N. J.
	Y . GG
SANITARY INSPECTORS OF FIRST (
†Fred W. Hering	Jersey City, N. J.
tGeorge W Gilmore	
Fred C. Robertson, M.D	Jersey City, N. J.

[†] In the service of the local board of health.

†John T. McClure	Harrison, N. J.
†John G. Taylor	Dover. N. J.
Charles E. Bellows	Bridgeton, N. J.
†Albert E. Geissler	Kearny, N. J.
Thomas Ainge	
Charles S. Voorhis	
Charles S. Voorms	Palmyra. N. J.
†Lewis E. Boutillier	Newark, N. J.
†Joseph C. Saile	
†Casper Benz	
†Robert W. Meeker	Plainfield, N. J.
†John K. Bennett. M.D	Gloucester City, N. J.
William H. Addis	Plainfield, N. J.
William W. Heberton, M.D	.South Orange, N. J.
Eric Ordell	Nowark N T
John Greaves	Jersey City, N. J.
†John E. Rowe, D.V.S	Summit, N. J.
George N. Smith	
†Frank Dencklan	
J. H. C. Hunter	Dover. N. J.
Chauncey V. Bunnell	Jersey City, N. J.
†Charles F. Conrad	
Percy W. Sipp	Newark. N. J.
†H. S. Winterhalter	Bayonne, N. J.
To D Filestrick	Mandalain N. J.
Jay E. Kilpatrick	Montclair, N. J.
W. J. E. Seder	
†Alonzo Brower	
†Frederick E. Wilson	
David R. Thompson	Delaware City, Del.
†Jay G. Foose	Montclair, N. J.
†William H. Lowe, D.V.S	
Charles W. Harreys, M.D	Ridgewood, N. J.
Joseph C. Bitler, M.D.	Hammonton, N. J.
†Lynford E. Tuttle, M.D.V	
James L. Ollif	Plainfield, N. J.
James L. Umi	Flainneid, N. J.
J. J. Reason. M.D.	Carteret, N. J.
†Alfred C. Benedict, M.D	South Orange, N. J.
†John H. Winslow, M.D	Vineland, N. J.
†Harry R. IngallsEdward F. Flynn	Asbury Park, N. J.
Edward F. Flynn	Newark, N. J.
†Elvia Scott	.South Orange, N. J.
Harris Day, M.D	Chester, N. J.
A. I. Goehrig	Trenton, N. J.
Harry E. Moffett	Newark. N. J.
Irwin C. Dakin	Newark Y J
William Gleuck, Jr	Newark, N. J.
William Gleuck, Jr	Lakewood. N. J.
Fred S. Ball, M.D.	
†Felix McGee	Millburn, N. J.
Charles E. Divine	Newark, N. J.
†Charles McNabb	Bound Brook, N. J.
James J. Waters	Newark. N. J.
tJohn L. Lund, M.D.	Perth Amboy. N. J.
Edward Mulvaney M.D	Jersev City. N. J.
John J. Magner, M.D	Jersey City N J
Edward J. Devitt	Jarray City N J
†J. L. Ebbels	Montolein N. T
TJ. L. EDDels	Tries Tries At T
H. G. Eakin	Union Hill, N. J.
Joseph R. Bartlett	Atlantic City, N. J.
Frank V. Wilkinson	Newark, N. J.

[†] In the service of the local board of health.

	•
Edwin E. Taber	Long Branch, N. J.
†John A. Manson	
†Lester J. Hamblet	
Clarence A. Lamont	
Alex. M. Heron, M.D	Lakewood, N. J.
Abram A. Lydecker, M.D	
Howard H. Huffert	Newark, N. J.
†Sylvester Utter, M.D	
F. Wm. Stahuber	Trenton, N. J.
William Morris	
John W. Garey	Atlantic City, N. J.
†James P. McNair	Paterson, N. J.
Thomas J. Steele	Jersey City, N. J.
Walter B. Delaney	Jersey City, N. J.
John C. Harnett	
Henry A. Bonynge, M.D	
C. H. W. Van Sciver	
†Frank S. Harris	
Stanley S. Williams	Newark, N. J.
Patrick J. Brogan	Newark. N. J.
Samuel Bachman	Newark N J
†Sadie H. Layton	Ashury Park N. J.
†Frank A. Frederick	West Hoboken, N. J.
Andrew Carney, Jr	
†John J. Belbey	
Gustavus E. Freideman	
†Ralph L. Huttenloch	Montelair N I
William McKeon	
†H. W. Hartman, M.D.	
†John T. McClure, Jr	Liamian N T
Adolph O. Elsasser	
John Q. Larkin	
H. L. Harley, M.D.	Discontaille N. T.
Frederick W. Nichols	rieasantvine, N. J.
George C. Losey	Washington N T
Clarence I. Palmer	
B. F. Seaman, M.D	Dowies N. J.
George A. West	
C. P. Deyoe, M.D	Clamantan City N. J.
Frederick A. Stetter	Ashum Donk N. J.
Edward A. Cleary	
Thomas F. Boles	
William B. Palmer	Urange, N. J.
Frank Brouwer, M.D	Toms River, N. J.
Thomas J. Carter	Newark, N. J.
Charles A. Keating, M.D	
GANTHARY INCREOTORS OF SECOND	OT 4 9 9
SANITARY INSPECTORS OF SECOND	CLASS.
†Charles Cunningham, M.D	Hammonton N T
†Franklin P. Vanlier	Woodstown N. J.
Trankin F. Vaniler	wooustown, N. J.
†Joseph J. Clickenger	Tomaches N. J.
†J. C. Shinn, M.D	Jamesburg, N. J.
	

[†] In the service of the local board of health.

George Wildman Belmar. John M. Bensel Pleasantville, George S. Everett Linden, Frederick J. Dyer Grantwood.	N. N.	J.	•
SANITARY INSPECTORS OF THIRD CLASS.			
David JamiesonGloucester City,†Robert A. HirnerWoodbridge.Robert DicksonFair Haven.T. Nelson LillagoreOcean Grove.William B. SmithBelleville,Adrian HommellAsbury Park,William B. DavisMorris Plains,	N. N. N. N. N.	J. J. J. J.	
MEAT INSPECIORS.			
†G. F. Harker. D.V.S. Trenton, †Richard W. Hewitt, D.V.S. Camden, Willet H. Cooper, D.V.S. Trenton, ‡Albert T. Sellers. D.V.S. Camden,	N. N.	J. J.	

[†] In the service of the local board of health. ‡ Deceased.

List of Sanitary Districts

With Names and Addresses of Officers and Members.

CITIES.

Absecon, Atlantic county; population, 781. Lewis G. Bonfield, President; A. J. Craven, Martin Spiekerman, Samuel Johnson, Clerk and Registrar; C. C. Allen, Inspector.

Asbury Park, Monmouth county; population, 10,150. Theodore H. Berlnger, President; A. S. Burton, H. C. Millar, Henry Mitchell, M.D., D. W. Sexton, George Turner, I. R. Taylor, B. H. Obert, Secretary and Registrar; H. R. Ingalls and L. J. Hamblet, Inspectors.

Atlantic City, Atlantic county; population, 46,150. Elwood S. Johnson, President; W. S. Lawmaster, Harry J. Mulock, Lewis B. Glenn, Alfred W. Bailey, M.D., William B. Dill, Secretary; John J. Mahoney, Registrar; Edward Guion, M.D., Health Officer; Harry C. Beck, Thos. W. Clement, William F. Brode, W. F. Specht, Jr., Benj. H. Sooy, John W. Garey, Chas. McDewell and Theo. Voelmla, Inspectors.

Bayonne, Hudson county; population, 55,545. John J. Cain, President; George P. Oliver, Jerry Lisk, John J. Knight, Herman Klein, Louis Epstein. Eugene Macchi, John Harding, Secretary; John T. Connelly, M.D., Health Officer; Chas. J. Larkey, Assistant Health Officer; John Norwich, Inspector.

Beverly, Burlington county; population, 2,140. R. P. Hains, President; Burton Kiple, Wm. B. Jester, James D. Fish, Geo. A. Smith, Chas. J. Parsons, Clerk and Registrar; Geo. T. Tracy, Inspector.

Bordentown, Burlington county; population, 4,250. Samuel E. Burr, President; S. R. Magee, D. R. Brown, J. W. Higgins, Edwin L. Thompson, Wm. M. Kester, Clerk; Jos. R. Malone, Registrar; Wm. H. Shipps, M.D., Health Officer; Amos P. Thorn, Inspector.

Bridgeton, Cumberland county; population, 14,209. Frank S. McKee, Jr., President; W. H. Ballenger, Sydney E. Williams, Frederic S. Conner, Harry Antenette, John H. Moore, M.D., Secretary; Jacob B. Jones, Registrar; John C. Loper, M.D., Inspector.

Burlington, Burlington county; population, 8,336. Franklin S. Carter, President: Neal D. Keeler, William R. Schuyler, George W. Shinn, Thomas S. Mooney, Clerk and Registrar; M. W. Newcomb, Health Officer; C. H. Van Sciver, Inspector.

Camden, Camden county; population, 94,538. H. H. Davis, M.D., President; R. H. Gaskill, Wm. I. Kelchner, M.D., S. G. Bushey, M.D., M. K. Mines, M.D., M. F. Middleton, M.D., E. Wilmer Collins, Eugene B. Roberts, Clerk; Wm. D. Brown, Registrar; John F. Leavitt, M.D., Henry

B. Francis, Jos A. Starr, Wm. H. Iszard, M.D., and G. H. Robinson, Inspectors.

Cape May City, Cape May county; population, 2,471. A. L. Leach, M.D., President; W. R. Shepherd, Geo. L. Lovett, Robt. S. Hand, Wm. Porter, Clerk and Registrar; Dr. V. M. D. Marcy, Health Officer; Arthur G. Reeves, Plumbing Inspector.

East Orange, Essex county; population, 34,371. Roger H. Butterworth, President; Frank B. Lane, M.D., Ralph H. Hunt, M.D., DeWitt Cook, Jr., Harvey Mott, Wm. T. Bowman, Secretary and Health Officer; Lincoln E. Rowley, Registrar; Edward W. Lindsley, Inspector.

Egg Harbor City, Atlantic county; population, 2,181. August A. Breder, President; Henry G. Regensburg, Henry Otto, Dr. M. Frank, Wm. Morgenweck, Jr., Clerk and Registrar.

Elizabeth, Union county; population, 73,409. John W. Whelan, President; J. L. Bauer, Charles Brown, Edw. W. Whelan, T. E. Dolan, M.D., J. S. Green, M.D., S. M. Williams, John F. Kenah, Clerk and Registrar; L. J. Richards, Health Officer; P. J. Connell and Henry Toole, Inspectors.

Englewood, Bergen county; population, 9,924. Geo. B. Best, President; Thomas W. Lydecker, Edward Koster, F. C. Bradner, Gilliam D. Bogert, Clerk; John A. Manson, Inspector.

Gloucester City, Camden county; population, 9,462. Thomas McNulty, President; John Beaston, J. F. Blandy, Samuel Shuster, Wm. F. Mc-Lennan, M.D., Stokes Prickett, A. D. Koenemann, Clerk; Charles F. West, Registrar; John K. Bennett, M.D., Inspector; Edward A. Dugan, Plumbing Inspector.

*Hoboken, Hudson county; population, 70,324. Joseph Tucker, Clerk and Registrar.

*Jersey City, Hudson county; population, 267,779. James J. Hagan, Secretary and Health Officer.

Lambertville, Hunterdon county; population, 4,657. Edward W. Closson, M.D., President; William R. Bowne, Oliver C. Holcombe, Harry K. Kramer, James Moonan, Lewis C. Williams, M.D., James H. Reynolds, Clerk and Registrar; John L. Coryell and Charles S. Ciosson, Inspectors.

*Long Branch, Monmouth county; population, 13,298. E. B. Blaisdell, Secretary and Registrar.

Margate City, Atlantic county; population, 129. Thomas Bell, President; William Whittaker, Gottlieb Strotbeck, John Gertzen, James Boice, Clerk.

Miliville, Cumberland county; population, 12,451. John W. Wade, M.D., President; H. G. Miller, M.D., George Thorpe, James R. Headley, L. H. Hogate, Clerk and Registrar; Frank Bullock, Inspector; John D. Brandriff, Plumbing Inspector.

Newark, Essex county; population, 347,469. H. C. H. Herold, M.D., President; T. W. Corwin, M.D., James T. Wrightson, M.D., Charles W. Baker, George L. Warren, M.D., Timothy F. Foyle, Frank B. Meeker, M.D., Henry C. Vance, Otto B. Schalk, John H. McLean, David D. Chandler, Secretary and Health Officer.

*New Brunswick, Middlesex county; population, 23,388. Elmer J. McMurtrie, Secretary and Registrar.

Northfield City, Atlantic county; population, 866. Wm. P. Oxley,

^{*} No report received.

President; Eugene Somers, J. L. McConnell, Smith's Landing; Joseph Lake, Smith's Landing; E. C. Duberson, Clerk and Registrar.

*Ocean City, Cape May county; population, 1,950. T. Lee Adams, Clerk, Registrar and Inspector.

Orange, Essex county; population, 29,630. G. H. Richards, M.D., President; D. W. Poor, M.D., Bridgewater M. Arnold, Ludlow B. Clark, John T. Davis, Louis M. Sanders, Oliver S. Williams, J. Scott MacNutt, Secretary, Registrar and Health Officer; Thomas F. Harris, Richard Savage and William A. Webber, Inspectors.

Passaic, Passaic county; population, 54,773. Frank H. Field, M.D., President; Wm. L. Lyall, Geo. H. Michels, Mason R. Strong, Edwin De Baun, M.D., V. G. Becska, M.D., G. J. Van Schott, Sr., M.D., Virginia Hand, Clerk; Thomas R. Watson, Registrar; Nelson Elliott, M.D., Health Officer; Frank Kievitt, J. Payne Lowe, D.V.S., John N. Ryan, M.D., and Jacob Cooper, Inspectors.

Paterson, Passalc county; population, 125,600. John L. Leal, M.D., President; Franklin Van Winkle, James F. Briody, M.D., James J. Maher, Francis H. Todd, M.D., Jas. P. McNair, Secretary; Charles S. Gall, Registrar; J. Alex. Browne, M.D., Health Officer; James Fitzpatrick, William McKeon, William H. MacDonald, William H. Lowe, D.V.S., and William S. Greene, M.D., Inspectors.

Perth Amboy, Middlesex county; population, 32,121. Justus Kaletsch, President; P. N. Kennedy, Leo Schwartz, George Wustefeld, Robert W. Macan, Thomas F. Burke, Chas. I. Silk, M.D., Wilbur La Roe, Secretary and Registrar; John L. Lund, M.D., Samuel T. Frost and John H. Kerr, Inspectors.

Plainfield, Union county; population, 20,550. William H. Murray, M.D., President; Fred W. Dunn, Arthur E. Force, Thos. S. Davis, M.D., Secretary; H. O. Mattison, Registrar; John O'Brien, Jr., Health Officer; William Addis, Sr., and Carl T. Pomeroy, Inspectors.

Port Republic City, Atlantic county; population, 405. Daniel Fielder, President; William Van Sant, Gersh Fielder, Thomas A. York, John W. Barton, Clerk.

Rahway, Union county; population, 9,337. Joseph G. Smith, President; John T. Brickell, Walter E. Cladek, M.D., Moses Ritter, Edward J. Ghegan, Chas. H. Lambert, Clerk and Registrar; Fred J. Mix, Inspector.

Salem, Salem county; population, 6,614. R. M. A. Davis, M.D., President; L. H. Hummel, M.D., Chas. Markley, Frank Grier, Chas. R. Sharp, Harry Crispin, Warren T. Sparks, Secretary; Frank S. Harris, Registrar and Inspector.

Sea isie City, Cape May county; population, 551. James F. Eustace, President; Howard G. Stimus, M.D., Thomas Mitchell, John M. Ross, Clerk; A. S. Steelman, Registrar.

Somers Point, Atlantic county; population, 604. William M. Himeback, President; William Thompson, Lewis Mason, T. George Middleton, Clerk and Registrar.

South Amboy, Middlesex county; population, 7,007. E. H. Eulner, M.D., President; Jos. A. Sexton, Thomas C. Gelsinon, Clerk; Wm. Albaugh, Registrar; Wm. H. Parison, Inspector.

Summit, Union county; population, 7,500. Wm. H. Laurence, M.D., President; M. J. Kenny, Parker W. Page, Thomas H. Rockwell, M.D.,

^{*} No report received.

James G. Ovens, J. Edw. Rowe, M.D., Clerk and Registrar; T. J. Scott, Inspector.

*Trenton, Mercer county; population, 96,815. Howard H. Ely, Clerk and Registrar.

Ventnor City, Atlantic county; population, 491. C. Claude Scull, President; Adolph E. Apel, William G. Lore, H. C. Test, James G. Scull, Clerk and Registrar; John C. Tull, Inspector, Atlantic City.

Woodbury, Gloucester county; population, 4,642. Wm. T. Cooper, President; Samuel B. Burkett, H. B. Diverty, M.D., Wm. H. Duffield, Wm. A. Fisher, Adon W. Cattell, Theo. S. Burrows, Secretary; Arthur Starr, Registrar; Joshua Dawson and T. D. Clark, Inspectors.

BOROUGHS.

Aliendale, Bergen county; population, 937. W. E. Carver, President; J. M. Hamilton, J. A. Hubbard, M. J. Couch, A. B. Smith, Clerk.

Alienhurst, Monmouth county; population, 306. T. C. Cottrell, President; Geo. D. Morrow, Ira E. Whyte, H. W. Danty, Thos. L. King, G. B. Cade, Clerk and Registrar; E. H. Havens, Inspector.

*Allentown, Monmouth county; population, 634. H. H. Anderson, M.D., Secretary.

Alpine, Bergen county; population, 377. Wm. S. Opdyke, President; Douglass Green, Closter; J. H. Conklin, Sylvanus Van Valen, L. H. Tavernier, Clerk and Registrar.

*Andover, Sussex county; population, 884. H. E. Wilson, Clerk.

Atlantic Highlands, Monmouth county; population, 1,645. B. E. Failing, M.D., President; Lewis B. Morris, Joseph Trunen, Frank W. Reiter, Jas. S. Mason, W. T. Franklin, Clerk and Registrar; John R. Snediker, Inspector.

Audubon, Camden county; population, 1,343. Wm. Yardley, President; Robert Morrell, Jos. Williams, Harry Mackintosh, Howard Callingham, Clerk and Registrar; Frederick Weichard, Inspector.

Avalon, Cape May county; population, 230. E. O. Howell, Jr., Registrar.

Avon, Monmouth county; population, 426. Frank A. Sofield, President; John A. Smith, Dow Kling, John Supplee, Clerk and Registrar; H. E. Stanton, Inspector.

*Barnegat City, Ocean county; population, 70. J. C. Woodmansee, Clerk.

Bay Head, Ocean county; population, 281. Julius Foster, Assessor. *Beach Haven, Ocean county; population, 272. Thomas A. Gavin, Clerk.

Belmar, Monmouth county; population, 1,433. Wallace G. Hopper, President; William M. Bergen, Isband Dunfee, Dr. Fredk. Griffith, Wilmer H. Hoffman, Jacob Rosenfeldt, Chas. O. Hudnut, Clerk and Registrar; Alfred J. Wildman, Inspector.

Bergenfields, Bergen county; population, 1,991. Levi L. Holmes, President; W. Banta Van Saun, Mervyn Pratt, Dr. Geo. P. Pitkin, John J. Huyler, Registrar.

Bloomsbury, Hunterdon county; population, 600. Theo. Melick, President; Geo. Hawk, E. L. Reigel, J. V. Willever, W. A. Rutt, Clerk and Registrar; Dr. J. M. Betts, Inspector.

^{*} No report received.

Bogota, Bergen county; population, 1,125. Frank R. Wesley, President; John McNaughton, Russel B. Lord, E. H. Stedman, F. J. Pavlis, John F. Hill, Clerk and Registrar; M. G. Thewut, Health Officer; Robert Ballagh, Plumbing Inspector, Hackensack.

Bound Brook, Somerset county; population, 3,970. J. T. Robinson, M.D., President; C. R. P. Fisher, M.D., George Stryker, W. S. Negus, Secretary; Charles McNabb, Registrar and Inspector.

Bradiey Beach, Monmouth county; population, 1,807. W. W. Danin, President; Wm. Haussler, Leroy Johnson, Chas. F. Burney, Clerk and Registrar; Geo. W. Bostick, Inspector.

Branchville, Sussex county; population, 663. Edward A. Ayer, M.D., President; Jacob C. Price, William C. Cook, John D. Compton, Wilbur F. Dye, Ernest A. Shay, Clerk and Registrar.

*Brigantine City, Atlantic county; population, 67. E. R. Smith, Registrar.

Butler, Morris county; population, 2,265. G. C. Coates, President; E. P. Smithyman, Rudolph Guenter, Samuel K. Owen, Clerk; Allan Looker, Registrar, Bloomingdale.

Caldwell, Essex county; population, 2,236. Wm. H. Van Wart, President; Wm. J. Gray, Ottmar Block, Dr. Edwin E. Bond, Isaac E. Baldwin, Clerk; John J. Van Order, Registrar; C. H. Wells, Inspector, Montclair.

Cape May Point, Cape May county; population, 162. Amnon Wright, President; Charles Markley, T. Hazzard, Albert Schellinger, Frank R. Bowne, Clerk and Registrar; V. M. D. Marcy, M.D., Inspector, Cape May City.

Caristadt, Bergen county; population, 3,807. Louis Cuneo, President; H. A. Schmidt, Chas. Lonz, Rudolph Rayner, Clerk and Registrar; Henry Link. Inspector.

Chatham, Morris county; population, 1,874. Joseph E. Pollard, M.D., President; Walter A. Jaquith, M.D., Walter V. Sayre, Rufus Keisler, Jr., David H. Crawford, Clerk and Registrar; John J. McCormack, Inspector. Chesilhurst, Camden county; population, 246. James Brearey, President; John G. H. Horton, Louis S. B. Weigand, H. B. E. Deaton, J. T. Humphries, Clerk and Registrar.

*Clayton, Gloucester county; population, 1,926. C. F. Fisler, M.D., Registrar.

*Cliffside Park, Bergen county; population, 3,394. O. R. McElwain, Clerk and Registrar, Cliffside.

*Clinton, Hunterdon county; population, 836. Geo. A: Hall, Clerk. Closter, Bergen county; population, 1,483. David Parsells, President; David Wark, D. P. Doremus. F. D. Eckerson, Alfred Anderson, Clerk and Registrar.

Collingswood, Camden county; population, 4,795. H. L. Bialy, President; Henry Bennett, Henry Bauer, C. W. Batchelor, A. A. Gribbon, Chas. Kloss, Jr., C. C. Powell, Clerk and Registrar; Edward S. Sheldon, M.D., Edw. B. Rogers, Chas. F. Shaw and E. S. Simpson, Inspectors.

Cresskill, Bergen county; population, 550. Cornelius A. Lewis, President; Paul O. E. Ruhl, Phillip F. Nestel, John Ferdon, Clerk; George Y. Allaire, Registrar; Dr. J. B. W. Lansing, Inspector, Tenafly.

*Deal, Monmouth county; population, 273. Frederick C. Weber, Clerk.

^{*} No report received.

602

Delford, Bergen county; population, 1,005. R. W. Cooper, President, New Milford; W. E. Williams, J. J. Van Wagoner, J. S. Voorhis, Clerk and Registrar; S. A. Vandewater, M.D., Inspector, all of Oradell.

*Demarest, Bergen county; population, 560. A. Machold, Clerk.

Dumont, Bergen county; population, 1,783. R. D. Van Buskirk, President; Dr. Geo. S. Clark, F. Kleppe, Frank Hill, Clerk and Registrar; Dr. J. E. Pratt, Inspector.

Dunellen, Middlesex county; population, 1,990. Edward Pennock, President; Thomas H. Platt, Louis Churchill, Dr. Thomas J. Hogan, Clerk; Wesley C. Blain, Inspector.

East Newark, Hudson county; population, 3,163. John Pringle, M.D., President; Joseph North, Wm. B. McGlennon, M.D., E. J. McKenna, Clerk; F. H. Palardy, Registrar; John Keenan, Inspector.

East Rutherford, Bergen county; population, 4,275. George Sanders, President; Oscar Fortenbach, W. E. Ogden, M.D., William T. Seeger, Martin Messman, Ella M. Niederer, Registrar; C. V. Carly, Inspector.

Edgewater, Bergen county; population, 2,655. George W. Allison, President; Edward M. Fitzgerald, John E. Mulligan, Thomas W. Bradley, Arthur J. Carleton, Clerk and Registrar.

Elmer, Salem county; population, 1,167. Isaac B. Reeve, President; J. V. Conover, M. S. Black, E. E. Hires, Chas. H. Morris, P. M. Fox, Clerk and Registrar.

Emerson, Bergen county; population, 767. Diedrich Wulff, President; Rocco Alexander, Malcolm H. Angell, F. Adolph Maul, Harry I. Angell, Clerk and Registrar.

Englewood Cliffs, Bergen county; population, 410. Wm. Wunsch, President; Arnold M. Probst, August Herrmann, Daniel Westervelt, Emil Vyborny, Registrar, Coytesville; Jos. Huger, M.D., Inspector, Fort Lee.

Englishtown, Monmouth county; population, 468. Frank C. Laird, President; Frank Lewis, Charles P. English, Samuel S. Johnson, Elmer E. Christie, Clerk and Registrar.

Essex Fells, Essex county; population, 442. Chas. E. Leach, President; W. Foster, Oakes; James C. Spriggs, Daniel M. Wootton, Clerk and Registrar.

Fairview, Bergen county; population, 2,441. Geo. Ellenbeck, President, Cliffside; W. G. Wingerath, Fairview; Wm. Lauffer, Hudson Heights; O. O'Conner, Cliffside; John S. Tracy, Clerk, Registrar and Inspector, Fairview.

Fanwood, Union county; population, 471. F. W. Westcott, M.D., President; A. D. Beeken, C. R. Vincent, Philip Nieder, S. W. McAneny, Secretary and Registrar.

Farmingdale, Monmouth county; population, 416. A. A. Yard, President; Harry Hulshart, Ira Bound, J. Walter Butcher, Clerk.

Fieldsboro, Burlington county; population, 480. Robert Bignall, President; Reuben Parker, Walter Griffith, Joseph Hesley, W. H. Errickson, Clerk; Geo. W. Carman, Registrar.

*Flemington, Hunterdon county; population, 2,693. John H. Shrope, Secretary.

Fiorham Park, Morris county; population, 558. Charles H. Genung, President, Madison; Herbert V. B. Smith, Florham Park; Frank Budd,

^{*} No report received.

Chatham; Larue Ten Eick, Madison; Wm. V. Tunis, Clerk and Registrar, Madison; Geo. E. Felch, Inspector, Florham Park.

Folsom, Atlantic county; population, 232. Jacob Blazer, President; Jacob T. Roller, Henry Roller, Jas. Linback, Louis Schulze, Secretary and Registrar.

*Fort Lee, Bergen county; population, 4,472. John N. Race, Clerk.

Frenchtown, Hunterdon county; population, 984. E. J. Stryker, President; Wm. S. Dalrymple, Walter Stahlen, Martin T. Bellis, John H. Kline, Secretary; Preston S. Bloom, Registrar.

Garfield, Bergen county; population, 10,213. Miles C. Whitehead, President; Ernest B. Dahnert, Max Walter, George Maitland, Louis H. Heinzman, Clerk and Registrar; Oepke Bonnema and Martin D. Kart, Inspectors.

Garwood, Union county; population, 1,118. Adam H. Miller, President; J. M. Cowell, Chas. Schoenwisner, W. T. Mead, Burton M. Galloway, Clerk, Registrar and Inspector; William Addis, Inspector, Plainfield

Glen Ridge, Essex county; population, 3,260. H. C. Harris, M.D., President; W. W. Schouler, A. T. Benedict, F. D. Bell, H. K. Benson, Clerk; John A. Brown, Registrar; P. Higgins and H. K. Benson, Inspectors.

Glen Rock, Bergen county; population, 1,055. C. M. Viel, President, Ridgewood; James May, Ridgewood; J. L. Pilkington, Ridgewood; Hubbard Ferguson, Glen Rock; Wm. G. Griffiths, Clerk, Ridgewood R. F. D. No. 2; James Christopher, Registrar, Ridgewood; C. W. Harreys, M.D., Inspector, Ridgewood.

Haddonfield, Camden county; population, 4,142. Stanley Rurk, President; Alfred J. Shuster, Herbert D. Shivers, William W. Hodgson, Wm. H. Harrison, Clerk and Registrar; Edw. F. Magill, Inspector.

Haddon Heights, Camden county; population, 1,452. Geo. W. Waters, M.D., President; Edw. L. Jenks, John B. Reeves, W. M. Pollock, Secretary; E. N. C. Davis, Registrar; Edw. L. Jenks, Inspector.

Haledon, Passaic county; population, 2,560. Fred Wenzel, Sr., President; Ernest Schroeder, John J. Kapp, Jr., Theo. B. Kegelman, Clerk and Registrar; A. A. Lydecker, M.D., Inspector.

Hampton, Hunterdon county; population, 914. W. Frank Fritts, President; James Splane, Robert C. Thompson, Thomas J. Raber, Clerk and Registrar; T. B. Fulper, M.D., Inspector.

*Harrington Park, Bergen county; population, 377. Aubrey Ruggles, Clerk and Registrar.

*Harvey Cedars, Ocean county; population, 33. J. L. Fenimore, Registrar.

Hasbrouck Heights, Bergen county; population, 2,155. Howard B. Vannok, President; E. L. Tenney, Carlton T. Beck, Wm. J. Schweickert, Clerk and Registrar; S. V. Morris, M.D., Health Officer; D. M. Davidson, Plumbing Inspector.

Haworth, Bergen county; population, 588. George A. Hurd, President; M. Dieck, E. T. Hendrickson, A. Martinot, H. F. Copeland, Clerk and Registrar.

Hawthorne, Passaic county; population, 3,400. Paul A. Wieland, President, Hawthorne; J. Munnenthaler, Hawthorne; J. Rolla, Paterson, W. E. Thompson, Hawthorne; H. V. Teetsell, Clerk, North Pater-

^{*} No report received.

son; John A. Shea, Registrar, North Paterson; Joseph Payne, M.D., Midland Park, and Richard Keefe, Hawthorne, Inspectors.

Helmetta, Middlesex county; population, 661. James Dening, President; John Hysore, Clinton Clemons, Andrew York, Robt. J. Franklin, Clerk; E. M. Clemons, Registrar; J. C. Shinn, M.D., Inspector, Jamesburg.

High Bridge, Hunterdon county; population, 1,545. P. H. Murray, President and Registrar; F. C. Low, M.D., Samuel Tait, J. L. Phillips, Clerk; W. C. Alpaugh, M.D., Inspector.

*Highland Park, Middlesex county; population, 1,517. Wm. H. Holman, Clerk and Registrar.

*Highlands, Monmouth county; population, 1,386. Calvin Parker, Clerk and Registrar.

Hightstown, Mercer county; population, 1,879. William F. Lott, President; C. M. Franklin, M.D., D. H. Cunningham, A. V. Dawes, R. R. Forman, A. V. Pierson, Clerk and Inspector; F. V. Jemison, Registrar.

*Hohokus, Bergen county; population, 488. John De Vore, Secretary.
*Holly Beach, Cape May county; population, 1,901. E. Yenney, Clerk.
*Hopatcong, Sussex county; population, 146. Theo. A. K. Gessler, Clerk and Registrar, Landing.

Hopewell, Mercer county; population, 1,073. Robt. P. Miller, M.D., President; Jos. B. Hill, Wm. H. Hart, J. H. Merz, Dr. Robert Zulauf, Clerk and Registrar.

Island Heights, Ocean county; population, 313. H. H. Davis, President; A. W. Atkinson, Robt. T. Patterson, James Forester, H. C. Lippincott, W. B. McKaig, Clerk and Registrar.

Jamesburg, Middlesex county; population, 2,075. Geo. A. Shultz, President; James B. Pownall, Paul S. Davison, Wm. A. Thompson, Wm. S. Hankins, Clerk; Wm. H. Brooks, Registrar; John L. Suydam, M.D., Inspector.

Kenliworth, Union county; population, 779. F. S. Roosa, President; C. C. Wilber, E. F. Stevens, C. R. Losey, Clerk.

*Lavalette, Ocean county; population, 42. William R. Taylor, President and Secretary.

*Leonia, Bergen county; population, 1,486. H. M. Thompson, Clerk and Registrar.

Linden, Union county; population, 610. H. B. Hardenburg, President; Wm. McDonagh, Philetus Smith, H. L. Browning, Jr., J. L. Neubauer, J. F. Watson, W. M. Watson, Clarence H. Smith, Clerk and Registrar.

*Linwood, Atlantic county; population, 602. James Farish, Secretary and Registrar.

*Little Ferry, Bergen county; population, 2,541. Louis Brauer, Clerk. and Registrar.

Lodi, Bergen county; population, 4,138. Ernest L. Rumsey, President; Peter De Vries. John W. Lane, August R. Hunter, Jacob Van Hook, Clerk and Registrar; Henry H. Brevoort, M.D., and Tunis Looy, Inspectors.

Longport, Atlantic county; population, 118. William S. Gilmore, President; H. D. Hamilton, Berwyn, Pa.; Wilton D. Jackson, Bolton E. Steelman, E. Fullerton Cook, Clerk and Registrar; William C. Gilmore, Registrar.

Madison, Morris county; population, 4,658. Warren H. Barton, Presi-

^{*} No report received.

dent; E. P. Holden, F. H. Seward, M.D., J. J. C. Humbert, J. H. McGraw, S. Fred Burnet, Registrar and Inspector.

Manasquan, Monmouth county; population, 1,582. Wm. A. Thorpe, President; William A. Morton, Alonzo Mount, Robert M. Marks, Registrar; Richard B. Campbell, Inspector.

*Matawan, Monmouth county; population, 1,646. Wm. Rodgers, Clerk, Registrar and Inspector.

Maywood, Bergen county; population, 889. Henry Heck, President; G. Berroyer, J. M. Masters, J. W. Larbig, J. W. Norton, Robert Saunders, G. M. Fetzer, Clerk and Registrar.

Mendham, Morris county; population, 1,129. G. S. De Groot, M.D., President; D. Sage, Bernardsville, E. Garabrant, G. Silas Thompson, Edson J. Rood, Clerk.

Merchantville, Camden county; population, 1,996. Jos. E. Vankirk, President; A. H. Moses, J. V. Garrison, Thos. Hill, Jos. Lawrence, M.D., W. B. Stewart, Clerk and Registrar; Wm. Lindeman, Inspector.

Metuchen, Middlesex county; population, 2,138. A. C. Kelly, President; C. P. Hulb, F. M. Orton; H. Gross, M.D., Clerk; R. B. Crowell, Registrar.

Midiand Park, Bergen county; population, 2,001. C. P. Morgan, President; Charles R. Mastin, August H. Wostbrock, H. R. Snyder, Theodore Mabie, Wortendyke; Henry Amos, Wm. J. Ryans, Clerk and Registrar, Wortendyke; Joseph Payne, M.D., Inspector.

Milford, Hunterdon county; population, ———. Wm. R. Sailer, President; James Holden, John Giles, Frank P. Vanderbelt, Clerk and Registrar; A. A. Hiel, M.D., Inspector.

Milistone, Somerset county; population, 157. S. O. B. Taylor, M.D., President and Inspector; James H. Hagaman, William C. Kitchen, William P. Bainbridge, William H. Polhemus, Clerk; E. M. Davis, Registrar.

Milltown, Middlesex county; population, 1,584. Wm. Kuhlthan, President; John Dow, Adam Wagner, Walter Reeve, Robert Paterson, Milton Brindle, Clerk; Robert Harkins, Registrar; N. Nes. Forney, M.D., Inspector.

*Monmouth Beach, Monmouth county; population, 485. Nicholas Wolley, Secretary.

Montvale, Bergen county; population, 522. J. E. Thier, President; Rudolph Ludwig, D. S. Atkins, G. L. Ansel, Pearl River; John B. Hering, Clerk and Registrar.

*Moonachie, Bergen county; population, 638. S. T. Saviello, Registrar, Wood Ridge.

Mountainside, Union county; population, 362. Thomas Kitts, President; Alfred E. Pearsall, Aaron T. Hagaman, Robert Laing, Registrar; August Schwartz, Inspector.

Mount Arlington, Morris county; population, 277. R. J. Chaplin, President; F. H. Tappan, P. S. Dyer, C. D. Gordon, M.D., James Levie, Clerk and Inspector.

*Mount Tabor, Morris county; population, ———. H. A. Chamberlain, Clerk, 24 Garden avenue, Jersey City.

National Park, Gloucester county; population, 325. P. B. Milligan, President; O. H. Duer, J. L. Williams, Sr., Ruth Clements, Wm. E. Beers, Clerk and Registrar.

Neptune City, Monmouth county; population, 488. George M. Hurley,

^{*} No report received.

President, Avon; E. M. Bentell, Avon; John Palmer, Avon; Perry Dennison, Bradley Beach; Sharon F. Smith, Clerk and Registrar, Bradley Beach; William S. Bennett, Inspector, Avon.

*Netcong, Morris county; population, 1,532. Fredk. E. Force, Secretary.

New Providence, Union county; population, 873. C. Reuben Youngs, President, West Summit; Edward T. Nelson, Frederick Wirsching, William Woodruff, Clerk and Registrar.

North Arlington, Bergen county; population, 437. Ed O'Hara, Jr., President; William Stockhoff, George Fleming, Albert Benard, John Beaver, John Devine, Clerk and Registrar; Frederick Reipe, Inspector.

North Caldwell, Essex county; population, 595. William Kussmaul, President; Ralph C. Bach, Carl L. Fischer, William Little, Sherman Paddock, Clerk; Fred L. Baldwin, Registrar, all of Caldwell.

North Haledon, Passaic county; population, 749. William Clowes. President; Wm. J. Ellis, Chas. E. Ellis, Edw. Watson, Joseph Graham. Thomas F. Lord, Emil Miller, Samuel Clowes, Clerk and Registrar, all of Paterson, R. F. D. No. 3; A. A. Lydecker, M.D., Inspector, Haledon.

North Plainfield, Somerset county; population, 6,117. J. O. Osgood, President; A. E. Kenny, A. E. Giddis, C. H. Rugg, A. H. Dundon, Secretary and Registrar; J. L. Oliff, Inspector.

*North Wildwood, Cape May county; population, 833. Chas. G. Glenn, Secretary, Ottens, P. O.

Norwood, Bergen county; population, 564. Albert Mumberg, President; William Harra, Frederick Hafforn, John Gates, Jr., Clerk and Registrar.

*Oakland, Bergen county; population, 568. Allen S. Page, Secretary. Oaklyn, Camden county; population, 653. J. Franklin Johnson, President, Camdén; William C. Luick, Emil C. Hessert, Francis Ashdale, George Bossler, Richard D. Early, Clerk and Registrar.

Ocean Grove, Monmouth county; population, ——. A. E. Ballard, President; Henry Wheeler, W. H. Wardell, E. N. Cole, H. B. Alday, M.D., Secretary; J. H. Alday, M.D., Inspector.

Old Tappan, Bergen county; population, 305. J. Z. Bogert, President; J. J. O'Connor, W. Blauvelt, C. V. Gifford, Charles De Wolf, Clerk and Registrar, all of Westwood.

Pallsades Park, Bergen county; population, 1,411. Samuel Bryant. President; J. S. Van Dyke, M.D., Rollo Steenland, Louis Quad, William Sehner, Walter G. Stevens, Clerk and Registrar.

Park Ridge, Bergen county; population, 1,401. D. W. Woodley, President and Inspector; J. A. Moenig, M.D., S. Alexander, M.D., Martin Verbyst, H. Strohsahl, T. G. Forbes, Clerk and Registrar.

Paulsboro, Gloucester county; population, 2,121. William Gainer. President; William Hancock, George K. C. West, R. H. Reeves, M.D., Jacob Ballinger, Clerk and Registrar.

Pemberton, Burlington county; population, 797. Ahthony J. Morris, President; J. G. Montgomery, John B. Nutt, Jos. O. Jones, J. Newton Clevenger, J. J. Brander, Clerk and Registrar.

Pennington, Mercer county; population, 722. Edgar Hart, M.D., President; William Trudel, George W. Snook, Frank A. Blackwell, Charles M. Titus, Clerk; Frank A. Blackwell, Inspector.

*Pennsgrove, Salem county; population, 2,118. C. P. Lummis, M.D., Secretary.

^{*} No report received.

Pitman, Gloucester county; population, 1,950. C. B. Phillips, M.D., President and Registrar; David Shock, M. F. Lummis, M.D., Allen Clark, Robt. F. Moore, Benj. F. Mattson, Inspector.

Pleasantville, Atlantic county; population, 4,390. H. C. Thomas, President; Chas. Shewell, Frank Reinier, Wilbur Reed, John Stephenson, Thomas F. Crawford, Clerk and Registrar; H. L. Harley, M.D., Inspector.

Point Pleasant Beach, Ocean county; population, 1,003. Chas W. Dampman, President; Chas. B. Imlay, Joseph Elberson, J. Edw. Harvey, H. C. Shoemaker, Jr., Clerk, Registrar and Inspector.

Pompton Lakes, Passaic county; population, 1,060. Lynn S. Abbott, President; Chas. W. Lindsley, Chas C. Wickstead, John E. Schuyler, Geo. V. Sheffield, Horace L. Wells, Clerk and Registrar; Geo. B. Gale, M.D., Inspector, Butler.

Princeton, Mercer county; population, 5,136. Elmer H. Loomis, President; A. A. Woodhull, Richard Rowland, W. S. McLaren, J. S. Hoff, Bayard Stockton, Jr., Paul Martin, V. D. Bayles, W. B. Howe, Clerk and Registrar; R. Hoyt, Inspector.

Prospect Park, Passaic county; population, 2,719. George Boer, President; Alfred McAuley, Henry Woudenberg, John Crawford, Lambertus Touw, Clerk and Registrar; A. A. Lydecker, M.D., Inspector, Haledon.

Ramsey, Bergen county; population, 1,667. Orval O. Clark, President; John F. De Baun, Otto G. Feist, William J. Boyce, Daniel S. Wanamaker, Clerk and Registrar; Raymond A. Kiefer, M.D., Inspector.

Red Bank, Monmouth county; population, 7,398. James McCaffrey, President; Nicholas J. Wilson, William P. Frey, Biddle H. Garrison, M.D., Howard S. Higginson, Clerk and Registrar; Elwood Minugh, Inspector.

Ridgefield, Bergen county; population, 966. J. J. Conors, President; W. Proctor, W. L. Watson, Grantwood; R. K. Dyas, Clerk and Registrar; John Banta, Inspector.

*Riverside, Bergen county; population, 736. James E. Sims, Clerk.

Riverton, Burlington county; population, 1,788. E. C. Stoughton, President; C. A. Wright, James Cunningham, S. H. Davis, Charles Street Mills, M.D., Clerk and Inspector; Charles Davis, Inspector.

Rockaway, Morris county; population, 1,902. Harry W. Mutchler, President; Leonard Hoffman, J. M. Nichols, Clarence Beach, J. Frank Robinson, T. Brook Davey, Edward Roegner, Wm. A. Parliman, Clerk and Registrar; Charles Hull, Inspector.

Rocky Hill, Somerset county; population, 502. Wm. H. Stults, President; M. Reeve, M.D., A. E. Haynes, C. R. Baldwin, Clerk and Registrar.

*Roosevelt, Middlesex county; population, 5,786. R. Joseph Murphy, Clerk.

*Roseland, Essex county; population, 486. Everett Booth, Registrar. Roselle, Union county; population, 2,725. John I. Howe, President; A. A. Pope, C. P. Higgins, H. C. Pierson, M.D., G. W. Strickland, M.D., E. S. Waller, J. D. Cooper, Secretary and Registrar; Wm. Morris, Inspector, Roselle Park.

Roselle Park, Union county; population, 3,138. Alfred Atkins, President; Edward J. Kline, Henry Bangert, George Dennick, John E. Dower, Clerk and Registrar; William Morris, Inspector.

^{*} No report received.

*Rumson, Monmouth county; population, 1,449. Wm. Pearsall, Clerk. Rutherford, Bergen county; population, 7,045. Chas. Calhoun, M.D., President; Chas. R. Hunt, F. W. Fleming, George Schermerhorn, E. J. Kennedy, F. M. Buckles, Secretary and Registrar; Geo. K. Thomas, Inspector.

Saddle River, Bergen county; population, 483. Robert T. Wilson, President; R. A. Adams, J. W. Woodruff, J. G. Ackerman, James L. Ackerman, Clerk and Registrar; A. Van Nostrand, Inspector, Westwood.

Seabright, Monmouth county; population, 1,220. Howard B. Reed, M.D., President; S. S. Megill, John E. Howland, Clerk and Registrar; C. M. Slayton, Inspector.

Seaside Park, Ocean county; population, 101. Dr. Charles Harker, President; Charles B. Coles, L. J. Stone, G. H. Thacher, Clerk and Registrar.

Secaucus, Hudson county; population, 4,740. Louis G. Asmussen, President; George Fox, Andrew Hornung, Frank Kroll, Frank E. Van Dyne, Clerk.

Somerville, Somerset county; population, 5,060. Aaron L. Stillwell, M.D., President; William V. Steele, John Osbourn, Thomas H. Flynn, M.D., William R. Sutphen, Clerk and Registrar; George D. Totten, Inspector.

South Bound Brook, Somerset county; population, 1,024. E. B. Randolph, President; J. T. Robinson, M.D., E. D. Latourette, Wm. T. Morecraft, James P. Hoffman, Clerk and Registrar.

*South Cape May, Cape May county; population, 7. James Ritchie, Mayor.

South River, Middlesex county; population, 4,772. P. W. Radcliffe, President; A. W. Bissett, Charles Anderson, Jesse Selover, Clerk and Inspector; J. Conover Bowne, Registrar.

Spotswood, Middlesex county; population, 623. Joseph Hodapp, President; Charles Campbell, James H. Beebe, Clerk; Geo. W. De Voe, Registrar.

Spring Lake, Monmouth county; population, 853. S. R. Knight, M.D., President; J. G. Newman, Edward White, D. H. Hills, Clerk and Registrar; E. W. Remsen, Inspector.

*Stanhope, Sussex county; population, 1,031. J. J. Shaw, Clerk and Inspector.

Stockton, Hunterdon county; population, 605. Peter A. Shepherd. President; Charles A. Smith, Godfrey C. Stout, John S. Wilson, Clerk: Philip E. Rockafellow, Registrar and Inspector.

*Surf City, Ocean county; population, 40.

Sussex, Sussex county; population, 1,212. Harvey D. Van Gaasbeek. M.D., President; S. F. Quince, John L. McCoy, M.D., Harry E. Wells, Clerk and Registrar; Moses Green, Inspector.

*Swedesboro, Gloucester county; population, 1,477. W. H. Rieger, Clerk and Registrar.

*Tenafly, Bergen county; population, 2,756. J. M. MacKellar, M.D., Clerk.

Totowa, Passaic county; population, 1,130. John Raupp, President: Joseph Boyle, Eugene Luttringer, Peter Touw, Jr., Frank Atkins, Clerk and Registrar; Charles Keating, M.D., Inspector.

*Tuckerton, Ocean county; population, 1,268. J. F. Mathis, Secretary.

^{*} No report received.

*Upper Saddle River, Bergen county; population, 273. Henry Zabriskie, Clerk and Registrar, Allendale, R. F. D.

Verona, Essex county; population, 1,675. W. Pitt Rich, President; W. A. Schneider, Judson Parker, John H. Allen, Louis C. Miller, Clerk; Chas. S. Simonson, Registrar; Chester H. Wells, Health Officer, Montclair.

Vineland, Cumberland county; population, 5,282. Ferdinand Koetz, President; J. C. Barretta, Busley Ayres, Winfield Walls, Geo. W. Lamb, Clerk and Registrar; J. H. Winslow, Health Officer; W. H. Blake, Sanitary Inspector; W. J. Large, Plumbing Inspector.

Wallington, Bergen county; population, 3,448. John Van Iderstine, President; Joseph Brett, Edward Taylor, Fred Corey, James Brennan, Secrétary and Registrar.

Washington, Warren county; population, 3,567. F. P. McKinstry, M.D., President; Chas. M. Williams, M.D., F. J. La Rieu, M.D., D. V. Wyckoff, J. Martin Kase, Wesley Fleming, A. J. Craft, Clerk and Registrar; Geo. C. Losey, Inspector.

Wenonah, Gloucester county; population, 645. William C. Cattell, President; John Colbert, George L. Dilks, Hamilton Turner, Jesse W. English, Clerk and Registrar; Joseph S. Chew and Harry A. Stout, M.D., Inspectors.

West Caldwell, Essex county; population, 494. G. M. Caufield, President; M. S. Crane, Joseph Beach, F. A. Baldwin, Theodore M. Gray, Clerk; Herbert Francisco, Registrar, all of Caldwell.

West Cape May, Cape May county; population, 844. William H. Smith, President; Jacob Smallwood, Danl. E. Stevens, H. H. Eldredge, F. R. Hughes, M.D., Clerk; Theo. W. Reeves, Registrar.

*West Long Branch, Monmouth county; population, 879. R. R. Hughes, Clerk.

Westwood, Bergen county; population, 1,870. George J. Scott, President; Philip Myer, Winfield S. Post, William H. Hengstenburg, Geo. M. Levitas, M.D., Nicholas Cleveland, Clerk and Registrar.

*Wharton, Morris county; population, 2,983. 'Fred Rogers, Clerk.

Wildwood, Cape May county; population, 898. Otto C. Koeneke, President; Frank Dorrell, Henry Coombs, Clerk and Registrar; Harry Hendee and H. H. Tomlin, M.D., Inspectors.

Wildwood Crest, Cape May county; population, 103. Richard Scampton, President; Wm. A. Justice, Leslie Hallen, Clerk; E. B. Fagan, Registrar; Thos. Cross, Inspector.

Woodbine, Cape May county; population, 2,399. N. Lipshus, President; R. Reiner, J. Goodman, P. Horenstein, B. Tchernishevsky, S. H. Goldberg, Clerk and Registrar; R. Zellemeyer, Inspector.

*Woodcliff, Bergen county; population, 470. G. J. Wortendyke, Clerk and Registrar, Allendale, R. F. D. No. 2.

Woodlynne, Camden county; population, 500. E. M. Deckman, President; C. N. Davis, C. P. Gordon, Christian Dupont, Clerk and Registrar; J. M. Albert, Inspector.

Woodbridge, Bergen county; population, 1,043. Ernest Schuetter, President; Seymore B. Aimes, Julius Doerflinger, Isaac Holmes, Joseph F. Beck, Clerk and Registrar.

Woodstown, Salem county; population, 1,613. Isaac B. Coles, President; H. V. Foster, R. E. Corson, Wm. Coleman, E. P. McGeorge, M.D., Wm. B. Foster, Clerk and Registrar; F. P. Vanlier, Inspector.

^{*} No report received.

TOWNS.

Belvidere, Warren county; population, 1,764. Dr. Frank P. Lefferts, President; George Widenor, Jr., William Widenor, Samuel J. Hixson, George H. Weaver, Clerk and Inspector.

Bloomfield, Essex county; population, 15,070. James J. Thompson, President; Joseph Charles, Jacob Wolfe, M.D., Wm. Ritscher, Seymour P. Gilbert, Dr. Joseph C. Saile, Clerk, Registrar and Inspector.

Boonton, Morris county; population, 4,930. Thomas Heaton, President; John Glennon, Giles Miller, Frank N. Banta, Clerk and Registrar; J. Herbert Dawson, Inspector.

Dover, Morris county; population, 7,468. Arthur P. Van Gelder, President; William G. Hummel, A. W. Condict, M.D., A. J. Carroll, M.D., William H. Tonking, Clerk and Registrar; John G. Taylor, Inspector.

Freehold, Monmouth county; population, 3,233. E. D. Clayton, President; W. A. Barkalow, H. S. Brown, M.D., S. L. Bennett, Charles V. Du Bois, Alonzo White, Alonzo Brower, Clerk, Registrar and Inspector.

Guttenberg, Hudson county; population, 5,647. Philip Martin, President; Max Rosivatch, John Sullivan, Frederick Buesser, Joseph A. Hurley, August G. Brunckhorst, W. G. Langenhop, Clerk.

*Hackensack, Bergen county; population, 14,050. Coleman Gray. Secretary.

Hackettstown, Warren county; population, 2,715. George W. Smith. President; James Tamblyn, J. W. Curtis, W. S. McClennan, Thos. Nolan. Jesse Smith, A. G. Boettiger, Clerk and Registrar; R. G. Clark, Inspector.

Hammonton, Atlantic county; population, 5,088. John A. Hoyle, President; John Walther, C. R. Scullen, R. G. Scudder, Jos. S. Mart, Dr. J. C. Bitler, Clerk and Registrar; Dr. Chas. Cunningham, Inspector.

Harrison, Hudson county; population, 14,498. John T. Malone, President; Henry Allers, M.D., Nathaniel Comey, Jos. F. Lynch, Lawrence S. Fagan, Secretary; John T. McClure, Inspector.

Irvington, Essex county; population, 11,877. Jonah Hardgrove, President; Julius Bartosch, Hugo R. Winkler, Benjamin Camp, Westfall Gardner, Edwin Berry, Clerk; Joseph K. Clickenger, Inspector.

Kearny, Hudson county; population, 18,659. Wm. P. Anderson, President; Nevin Kennedy, Chas. Schiller, Frank Odendahl, Geo. McAfee, A. O. Bornemann, Clerk; Robt. V. England, Registrar; James A. Exton, M.D., Health Officer; Albert E. Geissler, Inspector; H. E. Stearns, Veterinarian.

Keyport, Monmouth county; population, 3,554. Gustave Maurer, President; S. F. Mason, William De Groff, A. S. Van Buskirk, D. Edgar Roberts, M.D., Charles F. Tuthill, Clerk and Registrar; H. W. Hartman, M.D., Inspector.

Montciair, Essex county; population, 21,550. M. N. Baker, President; R. P. Francis, M.D., L. W. Halsey, M.D., Seward Davis, John N. Holton, Secretary; C. H. Wells, Registrar and Inspector.

Morristown, Morris county; population, 12,507. James J. Lyons, President; Clifford Mills, M.D., F. H. Glazebrook, M.D., Robert C. Caskey, John D. Collins, Registrar; Robert S. Van Dyke, Inspector.

*Newton, Sussex county; population, 4,467. A. V. B. Mackerly, Clerk and Registrar.

^{*} No report received.

Nutley, Essex county; population, 6,009. J. L. Miller, President; R. W. Booth, E. P. Whalen, M.D., W. De Vausey, Geo. Hawksworth, Clerk and Registrar; E. E. Farth, Inspector.

Phillipsburg, Warren county; population, 13,903. Joseph Pfeiffer, President; Alma Williston, M.D., P. Frank Hagerty, Frank Coyne, Michael T. Lynch, Daniel Ziegler, Frank Kneedler, Clerk and Registrar; Howard R. Carey, Inspector.

Raritan, Semerset county; population, 3,672. B. F. Seaman, M.D., President; Wm. Wharton, J. J. Bourke, Clerk and Registrar; George A. West, Inspector.

Town of Union, Hudson county; population, 21,023. Chas. F. Ruh, President; Fredk. Zapp, Erwin Seitz, John Weil, Chas. Steller, Emil. Maisner, M.D., Richard Specker, Clerk; Grant P. Curtis, M.D., Inspector.

Westfield, Union county; population, 6,420. Joseph B. Harrison, M.D., President; George L. Delatour, Homer H. Butler, D.V.S., George S. Laird, M.D., C. W. Harden, Clerk and Registrar; Andrew J. Carney, Inspector, North Plainfield.

West Hobeken, Hudson county; population, 35,403. L. A. Menegaux, President; C. C. Hoffmeier, A. Ludlow, Chas. Weller, A. C. Winant, A. O. Wiesenburg, W. McK. Hillas, Clerk; F. A. Frederick, Sanitary Inspector; W. F. Ziegler, Plumbing Inspector.

West New York, Hudson county; population, 13,560. Charles Orth, President; Joseph Lindner, Harry Kuhlke, Clerk; Rudolph Kunze and Fred Schneider, Inspectors.

West Orange, Essex county; population, 10,980. Chas. Heim, President; Joseph Flemming, Chas. Degmun, Carl E. Stanton, Henry Femdt, Ditlow Schroll, Jr., Clerk and Registrar; James M. Maghee, M.D., Inspector.

VILLAGES.

Ridgefield Park, Bergen county; population, ——. John H. Ficken, President; E. J. Benson, Joseph Fletcher, J. A. Vetter, Otto Rhamstrom, Howard B. Ficken, Clerk; Wm. H. Hunter, Registrar; C. A. Knox, M.D., Inspector.

Ridgewood, Bergen county; population, 5,416. Edward S. White, President; Dr. John S. Hanks, Wm. L. Vroom, M.D., C. A. DeMund, M.D., Wm. H. Moore, C. A. Demarest, Clerk; J. Blauvelt Hopper, Registrar; H. H. Pettit, M.D., Health Officer; Dr. John B. Hopper, Inspector, Wyckoff.

South Orange, Essex county; population, 6,014. Mefford Runyon, M.D., President; Richard Freeman, M.D., J. Budd Smith, Edwin S. Allen, Tom C. Watkins, Edward N. Loomis, Secretary; Alfred C. Benedict, M.D., Registrar and Inspector.

TOWNSHIPS.

Acquackanonk, Passaic county; population, 11,869. Richard Berry, President and Registrar, Clifton; George F. Schmidt, Clifton; Eugene F. Piaget, Great Notch; Frank Wilkinson, Clifton; James Marsh, Lake View; Henry Frederick, Delawanna; Edo. M. Yereance, Clerk, Clifton; Jas. F. Sutton, Inspector, Lake View.

Alexandria, Hunterdon county; population, 1,045. William V. Bloom, President, Little York; Joseph Hoff, Everittstown, Walton Martin, Mt. Pleasant; John C. Wilson, Registrar, Everittstown; F. S. Grim, M.D., Inspector, Baptisttown.

Allamuchy, Warren county; population, 642. Jacob D. Roe, President, -Allamuchy; John A. Willson, Allamuchy; David M. Vreeland, Great Meadows; Benj. A. Hendershot, Clerk, Allamuchy; George A. Jilson, Registrar, Allamuchy; L. Cook Osmun, Inspector, Hackettstown.

Alloway, Salem county; population, 1,533. Gould S. Hitchner, President and Inspector, Alloway; Joseph Garton, Cohansey; Charles Timberman, Alloway; Dr. W. T. Good, Alloway; William E. Simkins, Clerk and Registrar, Elmer, R. F. D.; Gould S. Hitchner, Inspector, Alloway.

*Andover, Sussex county; population, 521. Wm. Iliff, Clerk, Lafayette. Atlantic, Monmouth county; population, 1,205. Sidney J. Beers, President, Colts Neck; Edward Taylor, Colts Neck; Aaron Sutphin, Phalanx; Frank E. Heyer, Registrar and Inspector, Colts Neck.

*Bass River; Burlington county; population, 685. Jos. B. Lamson, Clerk, New Gretna.

Bedminster, Somerset county; population, 2,375. Charles Tiger, President, Peapack; George E. Crater, Pottersville; Charles Wood, Pottersville; John Bodine, Clerk and Registrar, Gladstone; M. C. Smalley, M.D., Gladstone; C. R. Kay, M.D., Peapack, and J. B. Beekman, M.D., Bedminster, Inspectors.

*Belleville, Essex county; population, 9,891. Edward E. Mathes, Clerk, Belleville.

Berkeley, Ocean county; population, 597. Benjamin F. Butler, President, Bayville; Stout R. Johnson, Toms River; William Britton, Jr., Bayville; Marcus B. Allen, Clerk, Bayville; Devine Butler, Registrar, Bayville; O. A. Wood, M.D., Inspector, Forked River.

Berlin, Camden county; population, 1,611. Samuel Adams, President, West Berlin: Rudolf Kinhue, Berlin; Sesel Tompson, West Berlin; X. F. Ottiger, Clerk, Berlin; F. O. Stern, Inspector, Berlin.

Bernards, Somerset county; population, 4,608. Grant B. Schley, Jr., President, Far Hills; H. R. Kunhardt, Bernardsville; James E. Bathgate, Jr., Basking Ridge; Fred E. Ballentine, Bernardsville; Henry Scheuerman, Basking Ridge; J. E. Buck, Clerk and Registrar, Bernardsville; Josiah Meigh, M.D., Inspector, Bernardsville.

*Bethlehem, Hunterdon county; population, 980. Wm. C. Riddle, Clerk, West Portal.

Beverly, Burlington county; population, 2,337. Harry K. Cramp, President, Beverly; Frank H. Story, Delanco; John E. Thornton, Beverly; H. K. Weiler, M.D., Delanco; Jos. B. Carter, Clerk and Registrar, Delanco.

Blairstown, Warren county; population, 1,718. Isaiah Lance, President, Vail; Theo. Dawes, Blairstown; Emmet Huff, Blairstown; Jos. A. Dugan, Clerk and Registrar, Vail; H. O. Carhart, M.D., Inspector, Blairstown.

Boonton, Morris county; population, 428. Andrew Kincan, President; Emmons Decker, Frank Bott, Edmund H. Stickle, Clerk and Registrar, all of Boonton.

Bordentown, Burlington county; population, 608. C. D. Mendanhall,

^{*} No report received.

M.D., President; Samuel Johnson, W. W. Dawson, J. H. Polkatt, Dr. Hugh Le Jambre, Clerk and Inspector, all of Bordentown.

*Branchburg, Somerset county; population, 970. Augustus McCullough, Registrar, North Branch Station.

Brick, Ocean county; population, 2,177. Alfred F. Holman, President, W. Point Pleasant; Chas. Johnson, Osbornville; J. H. Le Compt, Herbertsville; John A. Dorsett, Clerk and Registrar, W. Point Pleasant.

Bridgewater, Somerset county; population, 1,742. J. Albert Schneider, President, Martinville; Chas. F. Smith, Raritan; Peter Gulick, Raritan; John Slattery, Clerk and Registrar, Raritan; B. F. Seaman, M.D., Inspector, Raritan.

Buena Vista, Atlantic county; population, 2,723. Alfred Pennock, Sr., President, Registrar and Inspector, Vineland; Harry Brown, Newtonville; Frank Barsuglia, Vineland; Louis F. Canepa, Vineland; Douglas Reed, Clerk, Newfield.

Burlington, Burlington county; population, 1,220. Harry H. Mattson, President; Ellis C. Parker, Fred Shedaker, M. W. Newcomb, M.D., Thos. B. Gandy, Clerk, Registrar and Inspector, all of Burlington.

Byram, Sussex county; population, 1,055. Franklin G. Colby, President, Andover; A. L. Cassidy, Waterloo; Hiram Stone, Andover; Wm. H. McMickle, Clerk, Sparta.

Caldwell, Essex county; population, 704. Henry Myer, President; Austen M. Speer, Edward Sisco, E. E. Peck, M.D., Theodore Vincent, Clerk and Registrar, all of Caldwell.

*Cedar Grove, Essex county; population, 2,409. H. B. Whitehead, M.D., Clerk.

Centre, Camden county; population, 3,200. Herbert K. Dobbs, President, Magnolia; Sewall H. Hodges, Lawnside; Frank M. La Pierre, Magnolia; John H. Jackson, Clerk and Registrar, Magnolia.

Chatham, Morris county; population, 812. Edward W. Elazier, President, Green Village; C. A. Johnson, Chatham; L. A. Noe, Madison; J. Herbert Bebout, Clerk and Registrar, Chatham.

Chester, Burlington county; population, 5,069. William B. Lippincott, President, Moorestown; James H. Huston, Moorestown; Charles H. Dudley, Moorestown; Edward Cutler, Maple Shade; Thos. Gehring, Moorestown; Dr. F. G. Stroud, Secretary and Inspector, Moorestown; Geo. W. Heaton, Registrar, Moorestown.

Chester, Morris county; population, 1,251. John W. Rourk, President; W. S. Howell, Elias Wack, Chas. Rinehart, Clerk and Registrar; Harris Day, Inspector, all of Chester.

Chesterfield Burlington county; population, 1,130. Chas. M. Bunting, President, Crosswicks; Chas. E. Wallace, Chesterfield; Aaron E. Johnson, Crosswicks; Wm. Wallace, Registrar, Crosswicks.

Cinnaminson, Burlington county; population, 1,266. Clayton Conrow, President, Riverton; John L. Schmierer, Riverton; Benjamin Lippincott, Riverton; George C. Frank, Clerk, Cinnaminson; J. D. Janney, M.D., Inspector, Cinnaminson.

Clark, Union county; population, 469. Henry Sheifelstien, President; Isaac Terhune, Walter Cladek, M.D., Wm. J. Thompson, Clerk, all of R. F. D. Rahway.

Ciementon, Camden county; population, 2,794. Jacob C. Lippincott, President, Kirkwood; Fred H. Tomlinson, Laurel Springs; Wm. A.

^{*} No report received.

Wilson, Laurel Springs; Geo. W. Evans, Clerk and Registrar, Lindenwold; Frank B. Cook, Inspector, Laurel Springs.

Clinton, Hunterdon county; population, 2,108. David F. McCathran, President, Annandale; John Godwin, Annandale; John Shurts, Lebanon; Bergen B. Berkaw, Clerk and Registrar, Annandale; H. H. Miller, M.D., Inspector, Lebanon.

Commercial, Cumberland county; population, 2,604. Lewis F. Shropshire, President, Port Norris; C. W. Hand, Port Norris; Claude Bateman, Mauricetown; E. B. Bradford, M.D., Port Norris; Walter C. Riggin, Clerk and Registrar, Port Norris; Jos. N. Fowler, Inspector, Port Norris.

Cranbury. Middlesex county; population, 1,424. Walter Scott, President, Cranbury; John V. B. Wyckoff, Plainsboro; Joseph C. Chamberlain, Cranbury; A. M. Davison, Clerk and Registrar, Cranbury.

Cranford, Union county; population, 3,641. John W. Heins, President; Walter Schober, S. R. Droescher, I. V. S. Hillier, J. Z. Smith, Alfred H. Miller, Clerk; F. R. Swackhamer, Registrar; J. L. Vail, M.D., Inspector, all of Cranford.

*Deerfield, Cumberland county; population, 3,311. H. L. Cooper, M.D., Clerk, Newfield.

Delaware, Camden county; population, 1,706. Wm. Graff, President and Registrar, Haddonfield; J. Watson Matlack, Haddonfield; Jos Hinchman, Merchantville; Wm. T. Lippincott, Moorestown; W. B. Jennings, M.D., Clerk and Inspector, Haddonfield.

Delaware, Hunterdon county; population, 1,740. J. H. Case, President, Rosemont; Geo. H. Higgins, Sergeantsville; W. R. Stevenson, Stockton; David L. Holcomb, Clerk, Lambertville; Geo. N. Best, M.D., Inspector, Rosemont.

Deiran, Burlington county; population, 1,031. Edw. H. Haines, President, Riverside; A. P. Bright, Bridgeboro; Samuel Caldwell, Riverside; George Friday, Clerk and Registrar, Riverside, R. F. D.

*Dennis, Cape May county; population, 1,751. I. S. Townsend, Clerk and Registrar, Clermont.

Deptford, Gloucester county; population, 2,524. John Mayhew, President, Woodbury Heights; Oscar Stern, Almonesson; R. C. Budeman, Westville; Carroll C. Headley, Clerk, Registrar and Inspector, Westville.

Dover, Ocean county; population, 2,452. Lucian Gravatt, President and Registrar; Jacob A. Irons, Anthony A. Dunham, J. C. McClenahan, John A. Ernst, Clerk; Frank Brouwer, M.D., Inspector, all of Toms River.

Downe, Cumberland county; population, 1,519. A. B. Campbell, President, Newport; John Gaskill; Newport; A. P. Hickman, Dividing Creek; Sheppard Campbell, Clerk and Registrar, Newport; G. E. James, M.D., Inspector, Newport.

Eagleswood, Ocean county; population, 550. O. C. Cramer, President, West Creek; Jonathan Cox, West Creek; John A. Shinn, West Creek; Dr. Charles H. Conover, Tuckerton; Philip R. Sprague, Clerk, West Creek.

*Eastampton, Burlington county; population, 508. Chas. F. Holzbaur, Clerk and Registrar, Smithville.

East Amwell, Hunterdon county; population, 1,203. D. S. Lowe, President, Ringoes; Geo. C. Hartpence, Ringoes; Abram Polhemus, Ringoes; John J. Horn, Clerk and Registrar, Hopewell, R. F. D. No. 1; Dr. P. C. Young, Inspector, Ringoes.

^{*} No report received.

*East Brunswick, Middlesex county; population, 1,602. Henry Warnsdorfer, Clerk and Registrar, New Brunswick, R. F. D. No. 3.

East Greenwich, Gloucester county; population, 1,406. William Borden, President, Mickleton; William Cook, Mt. Royal; William Dauson, Mickleton; J. C. Dauson, Clerk, Mickleton.

East Windsor, Mercer county; population, 941. H. R. Applegate, President, Hightstown; Forman Updike, Hightstown; E. R. Pickering, Hightstown; S. L. Mount, Clerk and Registrar, Etra; C. M. Franklin, M.D., Inspector, Hightstown.

Eatontown, Monmouth county; population, 2,076. S. S. Stout, President, Eatontown; F. S. Higginson, Eatontown; H. W. Conrow, Oceanport; D. S. Morris, Clerk, Eatontown; A. L. Cowles, Registrar, Oceanport; Benj. Eldredge, Inspector, Oceanport.

Egg Harbor, Atlantic county; population, 1,110. R. Harry Sheele, President, Idlewood; John H. Smith, Scullville; Somers E. Leeds, Linwood; Wm. Hauenstein, Clerk and Registrar, Pleasantville; Dr. Ernest Zille, Inspector, Scullville.

Eik, Gloucester county; population, 1,022. William Hamilton, President, Aura; Thomas Hann, Ewan; Richard Gant, Monroeville; Samuel L. Seran, Clerk, Aura; E. Morțimer Duffield, Inspector, Glassboro.

Elsinboro, Salem county; population, 419. J. L. Smith, President, Salem; Edward Partell, Salem; Franklin T. Ayares, Clerk, Salem, R. F. D. No. 3; Wm. D. Griscom, Registrar, Elsinboro.

Evesham, Burlington county; population, 1,408. Allen Jones, President, Moorestown; William Dunphey, Marlton; Amos Wills, Marlton; Benj. K. Brick, M.D., Secretary, Marlton; Wm. F. Powell, Registrar, Marlton.

Ewing, Mercer county; population, 1,889. J. L. Knight, President, Trenton Junction; H. M. Fine, Trenton; Wm. S. Morris, Trenton; Wallace Lanning, Clerk and Registrar, Trenton; E. B. Allen, M.D., Inspector, Trenton.

Fairfield, Cumberland county; population, 1,629. James B. Mulford, President and Registrar; Geo. B. Williams, E. W. Trenchard, Jos. M. Myers, H. E. Lore, Chas. H. Nichols, Clerk, all of Fairton.

Fanwood, Union county; population, 1,616. Ira G. Walker, President, Scotch Plains; Henry C. Meyer, Scotch Plains; Winfield S. Terry, Scotch Plains; George H. Johnston, Clerk, Scotch Plains; F. W. Westcott, M.D., Inspector, Fanwood.

Florence, Burlington county; population, 4,731. Louis Gray, President; Chester Emmons, Lambert Rainear, Byron Carty, Secretary and Registrar; David Baird, Jr., M.D., Inspector, all of Florence.

Frankford, Sussex county; population, 1,004. Victor Compton, President, Branchville; H. E. Riddel, M.D., Branchville; Geo. B. Titman, Augusta; F. H. Marlatt, Branchville; J. W. Fountain, Clerk, Branchville, R. F. D. No. 2; Daniel Dalrymple, Registrar, Branchville.

*Franklin, Bergen county; population, 1,954. Daniel Snyder, Clerk and Registrar, Midland Park.

Franklin, Gloucester county; population, 2,603. John L. Downe, President, Newfield; Thomas McArthur, Iona; A. B. Richman, Malaga; Chas. H. Lincoln, Clerk, Registrar and Inspector, Newfield, R. F. D.

Franklin, Hunterdon county; population, 1,099. Burris Snyder, President, Quakertown; John W. Rinehart, Hamden; John W. Snyder, French-

^{*} No report received.

town; Elwood Nixon, Clerk, Quakertown; Q. E. Snyder, M.D., Inspector, Quakertown.

Franklin, Somerset county; population, 2,395. Wm. B. Voorhees, President, Middlebush; Elias Baker, Bound Brook; James G. Cortelyou, Princeton; Cornelius Cadmus, Jr., Clerk and Registrar, Middlebush; J. H. Cooper, M.D., Inspector, East Millstone.

Frankiin, Warren county; population, 1,585. Walter Godfrey, President, West Portal; Harvey F. Cole, Broadway; James H. Shipman, Asbury; E. H. Moore, M.D., Asbury; Chas. H. Hoagland, Clerk, Asbury.

Fredon, Sussex county; population, 457. Wm. Roy, President, Newton; Peter E. Garris, Newton; A. C. Snook, Newton; E. W. Landis, M.D., Stillwater; W. N. Westbrook, Registrar, Newton, R. F. D. No. 1.

*Freehold, Monmouth county; population, 2,329. R. V. Lawrence, Clerk

and Registrar, Freehold.

Frelinghuysen, Warren county; population, 1,074. Wm. Durling, Jr., President, Johnsonburg; James Toomath, Newton; A. L. Cook, Marksboro; J. E. Bowman, Clerk, Blairstown, R. F. D. No. 1; Fredrick Rorbach, M.D., Inspector, Johnsonburg.

Galloway, Atlantic county; population, 1,976. C. Bodine Somers, President, Oceanville; Cornelius Leeds, Smithville; Harry A. Wickes, Egg Harbor City; Chas. F. Stuckel, Registrar, Egg Harbor City, R. F. D.; C. C. Allen, M.D., Inspector, Absecon.

Glassboro, Gloucester county; population, 2,821. L. N. Shreve, President; Josiah Shute, Geo. Keebler, J. R. Helm, Clerk and Registrar, all of Glassboro.

Gloucester, Camden county; population, 2,380. Chas. M. Fell, President, Laurel Springs; Clarence Blackwood, Sicklerville; James T. Zane, Blackwood; A. E. Batten, Clerk and Registrar, Blackwood; J. Anson Smith, M.D., Inspector, Blackwood.

Green, Sussex county; population, 888. D. H. Longcor, President, Newton; E. E. Cooper, Tranquility; S. S. Coleman, Tranquility; J. C. Clark, M.D., Andover; I. L. Labar, Clerk and Registrar, Tranquility.

Greenwich, Cumberland county; population, 1,145. Ethan Glaspey, President; John N. Fithian, Isaac D. Brown, J. W. Butler, Clerk; S. M. Snyder, M.D., Inspector, all of Greenwich.

Greenwich, Gloucester county; population, 874. Frank Featherer, President, Gibbstown; John Warner, Gibbstown; Jos. Munyan, Gibbstown; Jos. Murray, Clerk, Paulsboro; Jacob Allen, Registrar, Gibbstown; Robert Reeves, M.D., Inspector, Paulsboro.

Greenwich, Warren county; population, 904. John H. Cypher, President, Stewartsville; Jacob R. Rush, Stewartsville; Geo. C. Hamlen, Stewartsville; William Sherrer, Clerk, Bloomsbury; F. W. Curtis, M.D., Inspector, Stewartsville.

Haddon, Camden county; population, 1,465. Alfred M. Matthews, President, Westmont; Albert J. Cline, Westmont; Harry E. Locke, Westmont; James St. C. Williams, Clerk and Registrar, Westmont; Edward B. Rogers, Inspector, Collingswood.

Hamilton, Atlantic county; population, 2,271. Charles Stewart, President; Harrison Wilson, Charles D. Makepeace, Harry Jenkins, Thompson Hoover, Clerk; Henry C. James, M.D., Inspector, all of Mays Landing.

Hamilton, Mercer county; pepulation, 7,899. E. B. Woodward, M.D.,

^{*} No report received.

President, Yardville; Chas. Comp, Yardville; Henry Davis, Hamilton Square; Aiex. Laird, Bromley Place; Harry Rogers, Hamilton Square; John R. Caldwell, Clerk, Broad Street Park; Jas. N. Reed, Inspector, Homedell.

Hampton, Sussex county; population, 671. Isaac D. Williams, President, Baleville; Simeon Yetta, Baleville; John A. Sigler, Halsey; J. W. Thompson, Clerk and Registrar, Swartswood; H. E. Riddell, M.D., Inspector, Branchville.

Hanover, Morris county; population, 6,228. Harrison D. Meade, President, Hanover; Edward J. Connelly, Whippany; John Gagenheimer, Whippany; Judd Conditt, Boonton; Dr. R. V. D. Totten, Wm. B. Davis, Clerk, Registrar and Inspector, Morris Plains.

Hardwick, Warren county; population, 405. Isaac J. Konkle, President, Blairstown; Hiram France, Blairstown; Jacob Bugle, Blairstown; M. C. Hill, Clerk and Registrar, Marksboro; H. O. Carhart, M.D., Inspector, Blairstown.

Hardyston, Sussex county; population, 5,210. Wm. Stephens, President, Franklin Furnace; Jas. McCue, Stockholm; R. L. Edsall, Hamburg; Smith Simpson, Registrar, Hamburg; Ed. P. Updegrove, Inspector, Hamburg.

*Harmony, Warren county; population, 1,490. Freeman Schuler, Registrar, Phillipsburg, R. F. D. No. 2.

Harrington, Bergen county; population, 588. L. B. Sneden, President, Northvale; Chas. F. Semino, Northvale; Jas J. Muzzio, Northvale; Arnold Kober, Clerk and Registrar, Northvale; C. R. Richardson, M.D., Inspector, Closter.

Harrison, Gloucester county; population, 1,682. Samuel T. Stratton, President, Ewan; W. W. Justice, Richwood; I. S. White, Mullica Hill; S. F. Ashcraft, M.D., Mullica Hill; Eli Heritage, Assessor, Richwood.

Hillsboro, Somerset county; population, 2,313. J. V. D. Brokaw, President, Belle Mead; John M. Sutphen, Three Bridges; Henry Seebring, Neshanic; W. H. Merrell, M.D., Clerk, Somerville; Harry Van Nuys, Registrar and Inspector, Millstone.

Hillsdale, Bergen county; population, 1,072. Chas. S. Van Wagonen, President; John H. Westphal, A. Mohnking, A. L. Fritz, Clerk; John W. Kenilworth, Registrar, all of Hillsdale; George M. Levitas, M.D., Inspector, Westwood.

Honokus, Bergen county; population, 1,881. Jacob C. Straut, President, Allendale; Charles D. Vanderbeck, Ramsey; Frank J. Dater, Mahwah; James Devine, Jr., Clerk and Registrar, Mahwah; Charles P. Deyoe, M.D., Inspector, Ramsey.

Holland, Hunterdon county; population, 1,699. Geo. N. Becker, President, Milford; E. J. Duckworth, Little York; Stewart Burgstresser, Milford; H. B. Vansyckel, Clerk and Registrar, Mt. Pleasant; A. A. Heil, M.D., Inspector, Milford.

Holmdel, Monmouth county; population, 1,058. Westley Mason, President, Keyport; Jonathan I. Holmes, Holmdel; Jacob Lambertson, Hazlet; Geo. Lambertson, Clerk, Hazlet; Wm. M. Ackerson, Registrar, Hazlet; C. A. Palmer, Inspector, Holmdel.

Hope, Warren county; population, 1,119. Geo. A. Henry, President, Great Meadows; I. B. Hopkins, Great Meadows; Clark Wilson, Hope; C. S. Bartow, Clerk and Registrar, Great Meadows; Walter Storm, Inspector, Hope.

^{*} No report received.

Hopewell, Cumberland county; population, 1,818. D. D. Davis, President, Shiloh; B. Frank Sharp, Bridgeton; Ephraim G. Hyars, Bridgeton; C. E. Bowen, Clerk, Shiloh.

Hopewell, Mercer county; population, 3,171. Joseph R. Burroughs. President, Pennington; Isaac B. Scudder, Titusville; David S. Hill, Mount Rose; Charles H. Hart, Clerk and Registrar, Titusville; J. W. Richards, M.D., Inspector, Pennington.

Howell, Monmouth county; population, 2,703. Wm. P. Havens, M.D.. President and Inspector, Farmingdale; B. M. Cooper, Lakewood; R. H. Morris, Adelphia; Chas. E. Ferry, Farmingdale; James H. Butcher, Clerk and Registrar, Freehold, R. F. D. No. 2.

*Hudson county; population, 537,231. James L. Lynch, Secretary.

independence, Warren county; population, 867. W. H. McCormick, President, Vienna; A. B. Leigh, Great Meadows; John Lommason, Vienna; F. W. Haggerty, Clerk, Vienna; E. Y. Williams, Registrar, Great Meadows.

*Jackson, Ocean county; population, 1,325. Geo. C. Hankins, Clerk, Vanhiseville.

Jefferson, Morris county; population, 1,303. Horace L. Cook, President, Lake Hopatcong; William P. Davenport, Stockholm; Edgar McCormack, Oak Ridge; Charles Chamberlain, Clerk and Registrar, Wharton, R. F. D.; Joseph P. Riggs, M.D., Inspector, Oak Ridge.

Kingwood, Hunterdon county; population, 1,265. Stanford Vanderbilt, President, Frenchtown; Wm. R. S. Cook, Raven Rock; R. Keath, Frenchtown; Samuel J. Snyder, Secretary and Registrar, Frenchtown; F. S. Grim, M.D., Inspector, Baptisttown.

Knowiton, Warren county; population, 1,556. Oscar Smith, President, Hainesburg; Mahlon Kinney, Delaware; Frank Clifton, Delaware; William B. Gilbert, Clerk, Columbia.

Lacey, Ocean county; population, 602. G. E. Wallace, M.D., President and Inspector; Geo. W. Frazee, A. H. Grant, Wm. R. Holmes, B. F. Mathews, Clerk and Registrar, all of Forked River.

Lafayette, Sussex county; population, 683. Jacob S. Losey, President; John D. Ackerson, Raymond Snyder, William S. Vought, Clerk and Registrar, all of Lafayette.

*Lakewood, Ocean county; population, 5,149. H. J. Terwilliger, Secretary, Lakewood.

Landle, Cumberland county; population, 6,435. L. F. Hatch, M.D.. President, Vineland; Thos. Fox, Willow Grove; Alex. Huston, Jacob Simonson, Louis Raffo, Robert E. Chalmers, Clerk and Registrar; Chas. M. Gray, M.D., Inspector, all of Vineland.

Lawrence, Cumberland county; population, 1,746. E. L. Mulford, President; D. W. Sheppard, C. S. Sterns, L. M. Hogbin, Clerk; F. B. Sheppard, Registrar, all of Cedarville.

Lawrence, Mercer county; population, 2,522. John E. Gordon, M.D., President, Princeton; Morgan B. Van Hise, Trenton, R. F. D.; Jasper Maple, Princeton; Frank Pierson, Clerk and Registrar, Lawrenceville; E. K. Fee, M.D., Inspector, Lawrenceville.

Lebanon, Hunterdon county; population, 2,179. Jacob N. Alpaugh-President, Glen Gardner; Peter C. Castner, Changewater; J. Frank Lance, Port Murray; Geo. H. Castner, Clerk and Registrar, Califon, R. F. D. No. 1; Edgar Hunt, M.D., Inspector, Glen Gardner.

^{*} No report received.

Linden, Union county; population, 1,988. John P. Winans, President, Linden; George W. Bauer, Linden; John E. Tucker, Elizabeth; John S. Mesler, Rahway; Peter Lindsay, Jr., Elizabeth; Frank B. Stimson, Secretary and Registrar, Linden; George S. Everett, Inspector, Linden.

*Little Egg Harbor, Ocean county; population, 388. Millard F. Parker, Clerk, Parkertown.

Little Falls, Passale county; population, 3,750. Chas. Barth, President, Eugene Shori; David Hawthorne, Alfred Halsey, Fred Hennri, Wm. M. Zeliff, Clerk and Registrar, all of Little Falls.

Livingston, Essex county; population, 1,025. F. M. Hoffman, President, Livingston; Sidney B. Winans, Livingston; Gotlieb Ochs, Chatham; E. E. Burnet, Clerk and Registrar, Chatham.

Lodi, Bergen county; population, 693. Chas. Kinzley, Frank Switz, John Turick, Jr., John Clausen, Jr., Clerk and Registrar, Hackensack, Sub Station No. 2.

Logan, Gloucester county; population, 1,523. Wilbur F. Beckett, President, Swedesboro; Wm. F. Justice, Bridgeport; Charles Lamson, Repaupo; S. B. Platt, Assessor, Bridgeport.

*Long Beach, Ocean county; population, 107. Chas E. Sherborne, Clerk, Long Beach.

*Lopatcong, Warren county; population, 766. Frank Cline, Registrar, Shimers.

Lower, Cape May county; population, 1,188. John C. Elliott, President, Cold Spring; William L. Garretson, Erma; J. Durrell Hoffmann, Fishing Creek; D. Morrell Woolson, Clerk, Fishing Creek; Wilson Lake, M.D., Registrar and Inspector, Erma.

Lower Alloways Creek, Salem county; population, 1,252. Albert M. Carll, President, Harmersville; Thomas S. Nixon, Canton; Lewis F. Smith, Hancock's Bridge; Frank B. Harris, M.D., Canton; Edward Hancock, Clerk, Registrar and Inspector, Hancock's Bridge.

Lower Penns Neck, Salem county; population, 1,544. Hance Jaquett, President, Pennsgrove; Chas. Bright, Pennsville; David Dixon, Salem; Ellsworth I. Irelan, Clerk and Registrar, Pennsville.

Lumberton, Burlington county; population, 1,768. Wm. Jones, President, Lumberton; A. E. Haines, Medford; J. C. Walters, Hainesport; Wm. C. Parry, M.D., Hainesport; E. C. Davis, Clerk, Registrar and Inspector, Lumberton.

Madison, Middlesex county; population, 1,621. Frank P. Lambertson, President, Cliffwood; Ambrose Green, Old Bridge; I. S. Crandall, M.D., Old Bridge; James Fountain, Clerk, Old Bridge; D. H. Brown, Registrar, Old Bridge; Edward Barker, Inspector, Matawan.

Manalapan, Monmouth county; population, 1,375. Edward Hendrickson, President, Englishtown; J. C. Sutphen, Tennent; W. C. Hartshorne, Freehold; A. T. Applegate, M.D., Englishtown; Garret B. Conover, Clerk, Englishtown; W. Denise Herbert, Registrar, Englishtown.

Manchester, Ocean county; population, 1,112. E. F. Larrabee, President, Lakehurst; C. Rhoads, Lakehurst; Peter Christofferson, Whitings; Harold Pittis, M.D., Clerk and Inspector, Lakehurst; Amos Bozarth, Inspector, Lakehurst.

*Mannington, Salem county; population, 1,606. Jonathan B. Grier, Clerk and Registrar, Salem.

Mansfield, Burlington county; population, 1,526. A. H. Patterson,

^{*} No report received.

M.D., President and Registrar, Georgetown; Frank B. Haines, Columbus; Elmer L. Tallman, Columbus; Wm. R. Sharp, Columbus; Jos. H. Armstrang, Clerk, and Registrar, Columbus

strong, Clerk and Registrar, Columbus.

Mansfield, Warren county; population, 1,238. William Lance, President, Port Murray; Jacob Thomas, Port Murray; John C. Beatty, Port Murray; Wm. P. Baylor, Clerk and Registrar, Washington, R. F. D. No. 2; H. S. Funk, Inspector, Port Murray.

Mantua, Gloucester county; population, 1,529. Isaac Dilks, President, Sewell; Edward Kean, Mantua; John S. Kincard, Sewell; Wm. S. Hurff, Clerk and Registrar, Sewell; E. Z. Hillegas, M.D., Inspector, Mantua.

*Mariboro, Monmouth county; population, 1,754. J. D. Ely, M.D.,

Clerk, Marlboro.

Matawan, Monmouth county; population, 1,472. Jacob Meinzer, President, Matawan; Lewis H. Stemler, Matawan; John D. Ivins, Cliffwood; Daniel Martin, Clerk, Matawan; Richard Heuser, Registrar, Matawan; Nathan Ervin, Inspector, Matawan.

Maurice River, Cumberland county; population, 2,124. Charles W. Champion, President, Dorchester; Charles Grassman, Port Elizabeth; William Carlisle, Delmont; Henry Reeves, Jr., Registrar, Leesburg.

Medford, Burlington county; population, 1,903. Joshua S. Wills, President; Samuel S. Evans, Frank A. Braddock, Wm. M. Potts, Registrar, all of Medford.

Mendham, Morris county; population, 792. W. B. Woodhull, President, Brookside; M. Fred Babbitt, Mendham; M. S. Burnett, Chester; Frank Dean, Clerk, Brookside; F. H. Garabrant, Registrar, Brookside.

Middle, Cape May county; population, 2,974. L. M. Swain, President, Swainton; J. Swing Willis, Cape May C. H.; Ralph Schellinger, Green Creek; Stillwell H. Townsend, Clerk and Registrar, Cape May C. H.; J. Morgan Dix, M.D., Inspector, Cape May C. H.

Middletown, Monmouth county; population, 6,653. Ernest H. Taylor. President, Middletown; D. W. Van Note, Belford; J. N. Johnson, Jr. Belford; A. M. Posten, Navesink; Frank Scott, Red Bank; Henry D. Smith, Clerk, Middletown; Omar Sickles, Registrar, Navesink; O. W. Budlong, M.D., Inspector, Belford.

Midland, Bergen county; population, 1,480. Carl H. Pauly, President, Oradell; August C. Ohle, Maywood; Otto Weisgerber, Ridgewood; John D. Bogert, Clerk and Registrar, Ridgewood, R. F. D. No. 1; Frank Free

land, M.D., Inspector, Maywood.

Milburn, Essex county; population, 3,720. Henry S. Acken, President, Maplewood; Ernest L. Smithers, Millburn; Daniel B. Kingsford, Short Hills; Wellington Campbell, M.D., Short Hills; Charles R. Reeve, Clerk and Registrar, Millburn; Felix McGee, Inspector, Millburn.

Milistone, Monmouth county; population, 1,461. A. B. Chamberlin. President, Perrineville; Geo. M. Davison, Perrineville; John H. Ely. Robbinsville; Geo. J. Ely, Clerk and Registrar, Cranbury, R. F. D.; Wm.

T. MacMellen, M.D., Inspector, Perrineville.

Monroe, Gioucester county; population, 3,015. William P. Buck, President; E. F. Evans, D. S. Champion, J. G. Edwards, M.D., John W. McClure, Clerk, all of Williamstown.

Monroe, Middlesex county; population, 1,723. John D. Butcher, President, Cranbury; Harry Roger, Cranbury; George McDowell, Cranbury; Robt. R. Vandenbergh, Clerk, Prospect Plains; J. L. Suydam, M.D., Jamesburg.

^{*} No report received.

Montague, Sussex county; population, 621. George A. Clark, President; Timothy Shay, Alfred Hastrum, Geo. McCarty, Clerk and Registrar; Dr. G. O. Pobe, Inspector, all of Port Jervis, N. Y., R. F. D.

*Montgomery, Somerset county; population, 1,637. Jacob Boice, Clerk, Harlingen.

*Montville, Morris county; population, 1,944. Frank H. Starkey, Clerk, Montville.

Morris, Morris county; population, 3,161. Thomas T. Sands, President and Registrar, Morristown; Lewis E. Clark, Morristown; Willis H. Dutton, Morristown; Watson A. Barton, Morris Plains; J. Paul Jamieson, Clerk, Morristown.

Mount Laurel, Burlington county; population, 1,573. Edward L. Godfrey, President, Moorestown; J. Harvey Darnell, Masonville; James J. Lavery, Masonville; Benj. M. Haines, Clerk and Registrar, Moorestown; F. G. Stroud, M.D., Inspector, Moorestown.

Mount Olive, Morris county; population, 1,160. George N. Salmon, President, Flanders; George Dorland, Flanders; Hiram Dilley, Mt. Olive; Hez. Smith, Clerk and Registrar, Flanders; Jas. Horn, M.D., Inspector Flanders.

Mullica, Atlantic county; population, 811. Jesse R. Abbott, President, Hammonton; Joseph Albor, Hammonton; Ross B. Pierce, Egg Harbor; John Mick, Elwood; John D. Carver, Clerk, Elwood; Jesse R. Abbott, Registrar, Hammonton.

Neptune, Monmouth county; population, 5,551. Leonard Hulit, President, Bradley Park; Chas. A. Lane, Asbury Park; Fred D. Hurley, West Grove; John Messler, West Grove; Adrian J. L. Hommell, Clerk, Registrar and Inspector, Ocean Grove.

New Hanover, Burlington county; population, 948. Albert Watson, President, Wrightstown; Richard W. Harker, Pointville; George Parker, Cookstown; Chas. Remine, Clerk and Registrar, Wrightstown; Howard Allen, Inspector, New Egypt.

New Providence, Union county; population, 526. Henry S. Fullerton, President, Scotch Plains; Frank C. Schaffer, Scotch Plains; Frank Exner, Scotch Plains; P. Garfield Johnson, Clerk, New Providence; Dr. B. H. Bebout, Inspector, Stirling.

Northampton, Burlington county; population, 5,652. Wm. H. Mason, President; S. Earl Asay, Harry Hawkins, Sr., T. Walter Borton, Chas T. Morton, W. T. Stewart, Clerk and Registrar; R. H. Parsons, M.D., Inspector, all of Moorestown.

*North Bergen, Hudson county; population, 15,662. Thomas Dubelbeiss. Clerk. North Bergen.

North Brunswick, Middlesex county; population, 990. William Vincent, President; Alfred Yorsten, Frank G. Hart, Isaac V. Williamson, Clerk and Registrar, all of New Brunswick, R. F. D.; J. D. Ten Eyck, Inspector, Franklin Park.

*North Hanover, Burlington county; population, 696. Benj. Harker, Jr., Clerk, Wrightstown.

North Plainfield, Somerset county; population, 886. Wm. Anderson, President, Plainfield; Alex. Archbold, Scotch Plains; Albert Brokaw, Bound Brook; Francis E. Bodin, Clerk, Watchung; Theo. H. A. Luerrsen, Inspector, Watchung.

Ocean, Monmouth county; population, 1,377. Wm. B. Ireland, Presi-

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^{*} No report received.

dent, Oakhurst; J. F. Woolley, Oakhurst; Borden A. Jeffrey, Elberon; H. G. Van Note, Clerk and Registrar, Oakhurst; E. M. Beach, M.D., Health Officer, West Long Branch.

Ocean, Ocean county; population, 397. H. R. Eiseman, President; W. B. Wilkins, Clerk, Waretown; P. W. Warren, Inspector.

*Oldmans, Salem county; population, 1,364. E. E. Somers, Registrar, Pedricktown.

Orvil, Bergen county; population, 970. J. W. Quackenbush, President: D. E. Mackley, E. J. Doty, G. M. White, Clerk and Registrar, all of Waldwick.

*Overpeck, Bergen county; population, 4,512. Wm. H. Hunter, Registrar, Ridgefield Park.

Oxford, Warren county; population, 3,444. L. B. Hoagland, M.D., President, Oxford; George German, Buttsville; George Potts, Oxford; William Cole, Belvidere; Michael Mountain, Clerk and Registrar, Oxford.

Pahaquarry, Warren county; population, 205. Jason G. Spangenburg. President; William Brink, Hiram Zimmerman, Registrar, all of Mill

Palisades, Bergen county; population, 1,141. Frederick Heine, President, New Bridge; Carl Ufheil, Peetzburg; John Vanderbeck, Dumont; George Gengenagel, Clerk and Registrar, Peetzburg; Chester A. King. Inspector, Oradell.

*Palmyra, Burlington county; population, 2,801. F. Blackburn, Clerk, Registrar and Inspector, Palmyra.

*Passaic, Morris county; population, 2,165. Walter J. Swenson, Clerk and Registrar, Stirling.

Pemberton, Burlington county; population, 1,679. Walter E. Woolston, President, Mt. Holly; John Davis, Brown's Mills; Victor Bush, Pemberton; E. Hollingshead, M.D., Pemberton; M. W. Hargrove, Clerk, Brown's Mills; Barclay Seeds, Registrar, Pemberton.

Pensauken, Camden county; population, 4,169. Isalah S. Hatch, President, Delair; William Wimer, Delair; G. Loeling, M.D., Pensauken. Harry E. Horner, Clerk and Registrar, Merchantville; Job Pidgeon, Inspector, Pensauken.

Pequannock, Morris county; population, 1,921. A. J. Slingerland, President, Pompton Plains; Thos. Dodd, Lincoln Park; Fredk. Ricker, Butler; Alfred Gilland, Clerk and Registrar, Pompton Plains; C. D. V. Romondt, M.D., Inspector, Pompton Plains.

Pilesgrove, Salem county; population, 1,786. W. C. Richman, M.D., President; J. G. Borton, C. B. McAllister, M. W. Buzby, Clerk, Registrat and Inspector, all of Woodstown.

*Piscataway. Middlesex county; population, 3,523. George W. Coriell, Registrar, New Market.

*Pittagrove, Salem county; population, 2,394. George Schalick, Clerk and Registrar, Centreton.

Plumsted, Ocean county; population, 1,123. Chas. W. Hopkins, President; James Larkin, Dayton Hopkins, Geo. Hartshorn, Clerk and Registrar; J. Wm. Bickler, M.D., Inspector, all of New Egypt.

*Pohatcong, Warren county; population, 3,202. Harry E. Boyer, Clerk

and Registrar, Springtown.

Pompton, Passalc county; population, 4,044. Edward R. Brown, President, Haskell; Walter C. White, Butler; James H. Vreeland, Midvale;

^{*} No report received.

David Beam, Clerk and Registrar, Midvale; D. N. Shippee, M.D., Inspector, Wanaque.

Princeton, Mercer county; population, 1,178. A. K. Macdonald, M.D., President and Inspector; M. Taylor Pyne, James Margerum, William I. Leigh, J. W. L. Anderson, S. P. Stryker, Clerk and Registrar, all of Princeton.

*Quinton, Salem county; population 1,091. Joseph Powell, Clerk, Quinton.

Randolph, Morris county; population, 2,307. William J. Curnow, President, Dover; Michael H. Maloney, Dover; George V. Lauterman, Mt. Freedom; Richard L. Cook, M.D., Dover; Ellison Coe, Clerk and Registrar, Mt. Freedom.

Raritan, Hunterdon county; population, 1,310. Joel Hellyer, President, Flemington; John Rockafellow, Flemington; Jos. Alvater, Flemington; Theo. H. Dilts, Registrar, Three Bridges; O. H. Sproul, M.D., Inspector, Flemington.

Raritan, Middlesex county; population, 2,707. Peter S. Meeker, President, New Brunswick; Edward Pfeiffer, Fords; Wm. R. Drake, Stelton; W. R. Woodward, Clerk, New Brunswick, R. F. D. No. 1; Wm. T. Woerner, Registrar, New Brunswick.

Raritan, Monmouth county; population, 1,583. J. L. T. Webster, President, Hazlet; Chas. Carr, Keansburg; Robert L. Brown, Keyport; P. O. Weigand, Hazlet; D. E. Roberts, M.D., Keyport; Herman L. Lehr, Clerk, Registrar and Inspector, Keansburg.

Readington, Hunterdon county; population, 2,569. Calvin C. Huff, President, Three Bridges; Silas Schomp, Stanton; Henry Miller, White House; W. T. Hoffman, Clerk and Registrar, White House Station; F. L. Johnson, M.D., Inspector; Stanton.

Riverside, Burlington county; population, 4,011. Jacob Theurer, President; Henry Taubel, J. Taylor Neal, Charles Heiss, Clerk and Registrar; Chauncey B. Lambert, M.D., Inspector, all of Riverside.

Rivervale, Bergen county; population, 450. Edwin A. Havers, President; Julius Kessler, Ellis Collignon, M. J. Ford, Clerk and Registrar; G. M. Levitas, M.D., Inspector, all of Westwood.

Rockaway, Morris county; population, 4,835. Calvin Lawrence, President, Dover; James Arthur, Wharton; Sidney F. Cook, Denville; Joseph Hitchens, Rockaway; William Pierson, Wharton; James Lash, Clerk and Registrar, Denville; Samuel A. Blanchard, Inspector, Rockaway.

Roxbury, Morris county; population, 2,414. Theodore F. King, President, Ledgewood; Chas I. King, Succasunna; John Todd, Landing; E. W. Kilpatrick, Clerk and Registrar, Landing.

Saddle River, Bergen county; population, 3,047. Otto P. Pehle, President, Rochelle Park; Adam Hopper, Fair Lawn; Isaac A. Hopper, Clerk and Registrar, Fair Lawn.

*Sandyston, Sussex county; population, 855. W. H. Van Sickle, Clerk, Layton.

Sayreville, Middlesex county; population, 5,783. Joseph Allgair, President; August Rhode, Robt. Letts, J. H. Beekman, M.D., Thos. Creamer, Clerk and Registrar; Henry Boyler, Inspector, all of Sayreville.

*Shamong, Burlington county; population, 483. J. W. B. Jennings, Assessor, Indian Mills.

Shrewsbury, Monmouth county; population, 3,238. Abram T. Bennett,

^{*} No report received.

624

President and Registrar, Fairhaven; Aaron Armstrong, Shrewsbury; Forman R. Smith, Fairhaven; John C. Crawford, Tinton Falls; Raymond Doughty, Clerk, Fairhaven; Dr. Robert Dickson, Inspector, Fairhaven.

Southampton, Burlington county; population, 1,778. John Brushwood, President; Frank Simons, George W. Elbert, Charles G. Naylor, Clerk and Registrar; J. C. Brown, M.D., Inspector, all of Vincentown.

South Brunswick, Middlesex county; population, 2,443. I. S. Bennett, President, Jamesburg; Arthur Turton, Monmouth Junction; H. W. Jeffers, Plainsboro; Wm. Perkins, Clerk and Registrar, Kingston.

South Harrison, Gloucester county; population, 694. Clayton G. Kirby, President, Mullica Hill; Mathew Allen, Mullica Hill; George F. Wilkinson, Basset; Samuel Ashcraft, M.D., Mullica Hill; D. C. Lippincott, Clerk and Registrar, Harrisonville.

South Orange; Essex county; population, 2,979. Wm. H. Knox, President, South Orange; William H. Kemp, Maplewood; William A. Greenaway, Irvington; Edward R. Arcularius, Clerk, Hilton; William G. Miller, Registrar, Maplewood; G. H. Taylor, M.D., Inspector, Maplewood.

Sparta, Sussex county; population, 1,579. Manning Sickles, President, Sparta; Walter D. Byram, Houses; Harry F. Collins, Ogdensberg; Sanford Reed, Clerk and Registrar, Houses; A. N. Jacobs, M.D., Inspector, Sparta.

Springfield, Burlington county; population, 1,278. Howard Letts, President, Jobstown; Ezra F. Burr, Burlington; Harry C. Applegate, Johnstown; Aaron H. Burtis, Clerk, Mt. Holly, R. D. No. 2; Lyman Hollingshead, M.D., Inspector, Pemberton.

Springfield, Union county; population, 1,246. Robert Morrison, President, George Parcel, Frederick Kenlie, Lewis T. Terry, Clerk; J. A. Stites, M.D., Inspector, all of Springfield.

Stafford, Ocean county; population, 934. Charles H. Cranmer, President, Manahawkin; Wm. B. Sprague, Manahawkin; Samuel Cranmer, Cedar Run; J. Willits Berry, Clerk and Registrar, Manahawkin; Joshua Hilliard, M.D., Inspector, Manahawkin.

Stillwater, Sussex county; population, 796. A. C. Roof, President, Stillwater; Eugene Huff, Stillwater; Wm. P. Struble, Swartswood; E. W. Landes, M.D., O. Van Horn, Clerk and Registrar, Stillwater.

Stow Creek, Cumberland county; population, 880. Albert Shimp, President; Charles Ware, Eric Carlson, Wm. H. Davis, Clerk and Assessor, all of Bridgeton, R. F. D.

*Tabernacie, Burlington county; population, 487. Geo. H. Wisham, Clerk, Wincentown, R. F. D. No. 2.

Teaneck, Bergen county; population, 2,082. J. E. Pearce, President, Englewood; Christian Benson, Englewood; George V. Demarest, Hackensack; David Beck, Hackensack; Peter I. Ackerman, Clerk and Registrar, Hackensack; Robert Stevenson, Inspector, Englewood.

Tewksbury, Hunterdon county; population, 1,742. Levi M. Hoffman, President, Califon; Frederick L. Lindabury, Lebanon; Jacob J. Neff, New Germantown; Francis A. Apgar, M.D., New Germantown; Hezekiah Philhower, Registrar, Califon.

Union, Bergen county; population, 4,076. Andrew Egert, President; Charles Rehwoldt, George Smith, John W. Clarke, M.D., Charles J. Rodgers, Clerk and Registrar; Michael A. Byron, Inspector, all of Lyndhurst.

^{*} No report received.

Union, Hunterdon county; population, 930. Geo. B. Smith, President, Clinton; Godfrey Emery, Jutland; Jas. Gano, Pattenburg; A. J. Hann, M.D., Pattenburg; Morris Stockton, Clerk and Registrar, Pattenburg.

Union, Ocean county; population, 982. J. Calvin Bower, President; John W. Chew, Charles H. Reeves, R. F. Elberson, Clerk and Registrar, all of Barnegat.

Union, Union county; population, 3,419. D. H. Beach, President, Union; Gettlieb Schmable, Lyons Farms; Howard B. Klein, Hilton; D. Hobart Sayre, Registrar, Union.

Upper, Cape May county; population, 1,483. Harry Young, President; Beesley's Point; Z. A. Townsend, Tuckahoe; James S. Smith, Petersburg; Jesse T. Young, Clerk, Beesley's Point; Somers C. G. Stephens, Registrar, Tuckahoe; Randolph Marshall, Inspector, Tuckahoe.

Upper Freehold, Monmouth county; population, 2,053. Isaac Dawes, President; John Havens, Joseph Johnson, R. F. Garrison, M.D., Clerk, William Quicksall, Inspector, all of Imlaystown.

Upper Penns Neck, Salem county; population, 744. Joseph Clark, President; Joseph Lloyd, David Wright, Willard Layton, Clerk; C. L. Fleming, M.D., Inspector, all of Penns Grove.

Upper Pittsgrove, Salem county; population, 1,754. Chas. Driver, President, Monroeville; William Mayhew, Elmer; Walter Lawrence, Elmer; Geo. W. Fitch, M.D., Daretown; R. A. Robinson, Clerk and Registrar, Monroeville.

Vernon, Sussex county; population, 1,675. Sherwood B. Garlinghouse, President, Vernon; Charles L. Giveans, Glenwood; Nicholas P. Ryerson, Registrar, Glenwood; Edw. P. Uptegrove, M.D., Inspector, Hamburg.

Voorhees, Camden county; population, 1,174. Chas. Hammel, President, Mariton; John P. Thompson, Gibbsboro; Albert Rau, Ashland; Wm. Westcott, M.D., Berlin; S. H. Gardiner, Clerk and Registrar, Ashland.

Wall, Monmouth county; population, 3,817. Chas. White, President, Belmar; E. C. White, Belmar; Geo. E. Rogers, Belmar; S. Bartley Pearce, Brielle; Wm. W. Trout, M.D., Spring Lake; Geo. E. Rogers, Clerk, Registrar and Inspector, Belmar.

Waipack, Sussex county; population, 286. Eugene Rosenkrans, President, Flatbrookville; Lester J. Tullor, Walpack Center; Emmet Struble, Walpack Center; J. W. Bunnell, Registrar, Walpack Center.

Wantage, Sussex county; population, 2,077. Frank J. Coe, President; Frank Meddaugh, Jasen House, James Wilson, S. M. Parcell, Clerk and Registrar; H. D. Van Gasbeck, Inspector, all of Sussex.

*Warren, Somerset county; population, 1,036. E. E. Sage, Clerk, Registrar and Inspector, Plainfield, R. F. D. No. 3.

Washington, Bergen county; population, 100. Paul C. Schultz, Registrar, Westwood, R. F. D. No. 2.

Washington, Burlington county; population, 597. Joseph M. Birdsall, President, Green Bank; Thos. K. Sooy, Green Bank; Julius Gerber, Batsto; A. E. Koster, Registrar, Green Bank.

Washington, Gloucester county; population, 1,396. Augustus Their, President, Sewell; G. Clark Shuster, Sewell; G. R. Hurff, Turnersville; Jos. E. Hurff, M.D., Blackwood; C. D. Nicholson, Clerk and Registrar, Turnersville.

Washington, Mercer county; population, 1,090. Chas. H. Conover,

^{*} No report received.

President, Hightstown; Chas. Tindall, Windsor; Mahlon Mershon, Robbinsville; C. N. Hutchinson, Robbinsville; E. B. Yard, Clerk, Robbinsville; F. M. Arthur, M.D., Inspector, Hamilton Square.

Washington, Morris county; population, 1,900. Fred Apgar, President, Califon; A. Gulick, Hackettstown; G. H. Sliker, Clerk and Registrar, Port Murray; Lew Dufford, Inspector, German Valley.

Washington, Warren county; population, 1,023. William Larison, President; Daniel M. Wyckoff, Orin Perry, Charles B. Smith, M.D., Samuel Rinehart, Clerk, all of Washington.

*Waterford, Camden county; population, 1,484. Chas. D. Heath, Clerk and Registrar, Berlin.

Wayne, Passaic county; population, 2,281. Edward Merselis, President, Paterson; Geo. W. Colfax, Pompton; Larry Berdan, Paterson; Isaac Hopper, Clerk, Paterson, R. F. D. No. 1; Thos. D. Ryerson, Registrar, Wayne.

Weehawken, Hudson county; population, 11,228. Chas. W. Kugler, President; Thomas L. Anderson, Thomas J. Gallagher, Frank G. McCort, Silas W. Platner, John M. Hannan, Clerk; A. E. Fendrick, Inspector.

Westampton, Burlington county; population, 564. Wm. H. Austin, President; Burwood M. Haines, Frank McFarland, Hudson B. Haines, Clerk; Elmer D. Prickett, M.D., Inspector, all of Mt. Holly.

West Amwell, Hunterdon county; population, 866. Chas. A. Slack. President; Chas. E. Holcomb, Richard Runkel, Geo. H. Carr, Clerk and Registrar; F. W. Larison, M.D., Inspector, all of Lambertville, R. F. D.

West Deptford, Gloucester county; population, 2,057. J. Wilmer Leonard, President, Thorofare; J. A. Moore, Thorofare; R. M. Plum, Thorofare; James Carter, Clerk and Registrar, Thorofare; James Hunter, M.D., Inspector, Westville.

West Milford, Passaic county; population, 1,967. Walter Vreeland, President, Macopin; Samuel E. Cottes, Echo Lake; Theodore Stickle. Newfoundland; D. E. Drake, M.D., Newfoundland; John M. Weaver. Clerk and Registrar, Newfoundland.

West Windsor, Mercer county; population, 1,342. Jacob R. Wyckoff, President, Dutch Neck; Walter S. Grover, Princeton Junction; Hiram Mount, Trenton, R. F. D.; Hiram A. Cook, Clerk, Dutch Neck; H. J. Coleman, Registrar, Trenton, R. F. D. No. 2.

Weymouth, Atlantic county; population, 899. Wm. Wieher, President, Risley; Thos. Bailey, Tuckahoe; Hope W. Gandy, Tuckahoe; F. R. Mc Keague, Registrar, Tuckahoe; R. Marshall, M.D., Inspector, Tuckahoe.

Willingboro, Burlington county; population, 562. Elwood Hart, President, Rancocas; Jos. Wills, Jr., Burlington; John S. Perkins, Beverly; Howard J. Hart, Secretary and Registrar, Rancocas; E. D. Prickett, M.D., Inspector, Mount Holly.

Winslow, Camden county; population, 2,919. F. Presley, President, Elm; H. Keling, Blue Anchor; F. Sickler, Sicklerville; Joseph H. Graham, Clerk and Registrar, Blue Anchor; C. Cunningham, M.D., Inspector, Hammonton.

Woodbridge, Middlesex county; population, 8,948. Louis E. Potter. President and Registrar, Woodbridge; Alfred P. Cranston, Colonia; F. Randolph Lee, Woodbridge; Anton Kuhlman, Sewaren; Geo. H. Brown.

^{*} No report received.

Woodbridge; John S. Dooley, Clerk, Woodbridge; Robert A. Hirner, Inspector, Woodbridge.

*Woodland, Burlington county; population, 475. W. J. Buzby, Clerk, Chatsworth.

Woolwich, Gloucester county; population, 1,136. W. G. Simmons, M.D., Secretary, Swedesboro.

^{*} No report received.

Names and Addresses of Physicians.

ATLANTIC COUNTY.

Allen, C., C., Absecon.
Atherton, Andrew L., 1005 Pacific avenue, Atlantic City.

Bailey, A. W., 1809 Pacific avenue, Atlantic City.

Balliett, Lorenzo D., 1001 Atlantic avenue, Atlantic City. Barbash, Samuel, 1906 Pacific avenue,

Atlantic City. Bartlett, Clara K., 11 N. North Caro-

lina avenue, Atlantic City. Beckwith, John T., 104 S. Ohio avenue,

Atlantic City.

Bennett, Francis W., 1710 Pacific ave-

nue, Atlantic City. Bennett, Wm. H., Pacific and Ohio ave-

nues, Atlantic City. Berner, David, 1511 Pacific avenue, Atlantic City.

Bewley, Lylburn H., 1209 Pacific avenue., Atlantic City.

Bitler, J. C., Hammonton.

Bossert, Chas. L., 107 N. Virginia avenue, Atlantic City.
Boysen, T. H., Egg Harbor City.

Burt, F. C., Hammonton.

Carrington, Wm. J., 900 Pacific avenue,

Atlantic City.
Chew, E. C., 28 Kentucky avenue, Atlantic City.
Conaway, W. P., 1723 Pacific avenue,

Atlantic City. Crosby, Geo. W., 716 Atlantic avenue,

Atlantic City.
Crowell, Godfrey M., Hammonton.
Cunningham, Chas., Hammonton.
Cuskaden, A. D., 2000 Atlantic avenue,

Atlantic City.

Darnall, W. E., 1719 Pacific avenue, Atlantic City.

Davenport, St. Elmo, 1413 Arctic avenue, Atlantic City.

Davis, Wm. P., 1721 Pacific avenue, Atlantic City.
De Silver, Jos. F., 1500 Pacific avenue,

Atlantic City.

Divine, Jane S., 601 Pacific avenue.

Atlantic City.
Doherty, Harry A., 2 S. Stenton Pl., Atlantic City.

Doriss, H. Stokes, 119 South Carolina

avenue, Atlantic City.
Douglass, J. S., Tuckahoe.
Dourdedourne, Evaline, Longport.

Dubler, W. J., Minotola. Dunlap, Thos. G., 921 Pacific avenue, Atlantic City.

Durand, Jay I., 1616 Pacific avenue, Atlantic City.

Elmer, J. U., Egg Harbor City. Ewens, Arthur E., Le Grande Apts., Atlantic City.

Fish, Clyde M., Pleasantville.
Fleming, Jno. R., 3 S. Montpelier avenue, Atlantic City.

Fletcher, Geo. H., 1910 Arctic avenue, Atlantic City.

Frank, M., Egg Harbor City.

Gardiner, Wm. G., Atlantic City. Garrabrant, C., 1001 Atlantic avenue, Atlantic City.

Gehring, G. P., Bakersville, Guion, Edward, Atlantic City.

Harker, G. H., Mays Landing. Harley, H., Hammonton. Harris, Robert E., 1407 Arctic avenue,

Atlantic City.

Harvey, E. H., Atlantic City. Harvey, H. T., 2 S. Morris avenue, Atlantic City.

Hawkins, Pompey L., 1813 Arctic avenue, Atlantic City.
Hickman, Walter A., 612 Pacific ave-

nue, Atlantic City. Hughes, J. Wm., 1903 Pacific avenue, Atlantic City.

Ireland, Milton S., 23 S. California avenue, Atlantic City.

James, H. C., Mays Landing. Jonah, Wm. E., 1616 Pacific avenue, Atlantic City.

Joy, J. A., 19 lantic City. 1920 Pacific avenue, At-

Judson, J. R., Pleasantville.

Lee, Bernard R., 901 Pacific avenue, Atlantic City. Leonard, Isaac E., 28 N. Iowa avenue,

Atlantic City.

Lyon, Malvern S., 716 Atlantic avenue, Atlantic City.

Madden, E. H., Absecon. Madden, T. W., Absecon. Marshall, Jos. C., 1517 Pacific avenue, Atlantic City. Marvel, Emery, 1801 Pacific avenue, At-

lantic City. Marvel, Philip, 1616 Pacific avenue, At-

lantic City.
Metzler, V. W., Atlantic City.
MeVay, James C., 707 Pacific avenue, Atlantic City.

Miller, D. J. M., 1700 Pacific avenue, Atlantic City.

Miller, Mary, Ventnor. Morris, S. LeRoy, 109 New York avenue, Atlantic City.

Munro, H. C., Pleasantville. Munson, M. L., 1503 Pacific avenue, Atlantic City.

North, J. II., Pleasantville. North, James, 29 S. Tennessee avenue, Atlantic City.

Poland, Joseph, 1906 Pacific avenue, Atlantic City. Pollard, W. M., 25 S. South Carolina, avenue, Atlantic City. Porteous, Edward J., 1801 Pacific avenue, Atlantic City.

Reed, E. L., Pacific and Virginia avenues, Atlantic City. Reed, J. W. Absecon.

Reed, Talbot, 400 Pacific avenue, Atlantic City. Reilly, E. A., 20 S. Tennessee avenue,

Atlantic City. Reynolds, Walter, 27 S. Indiana avenue. Atlantic City.
Ritter, Henry, 9 N. Kennedy Pl., At-

lantic City.

Schmidt, Wm. H., 31 S. Indiana avenue, Atlantic City.

Scott, Geo., 1109 Pacific avenue, Atlantic City.
Senseman, Theo., Pacific avenue and S. Charles Pl., Atlantic City.
Sharpe, Edward S., 30 N. Georgia ave-

nue, Atlantic City. Shimer, A. Burton, 606 Pacific ave-

nue, Atlantic City. Shivers, Chas. H., 8 S, New Hampshire

avenue, Atlantic City. Silver, Homer I., 1910 Pacific avenue. Atlantic City.

Smith, Warren H., 22 S. Ohio avenue, Atlantic City. Snowball, Jas. W., 1519 Pacific avenue,

Atlantic City.

Sooy, Rich M., Pleasantville.
Sooy, Walter C., 1913 Pacific avenue,
Atlantic City.

Souder, Lewis R., 1910 Pacific avenue, Atlantic City.

Steelman, Phillip S., Linwood. Stewart, W. Blair, Pacific and North Carolina avenues, Atlantic City. Stickney, Otis D., 922 Pacific avenue, Atlantic City.

Stille, Samuel, 1546 Atlantic avenue. Atlantic City.

Taggart, Thos. D., 22 S. Illinois avenue, Atlantic City. Terry, Edward B., 25 N. Ohio avenue.

Atlantic City.
Thompson, J. B., 1922 Pacific avenue.

Atlantic City. Townsend, Mary E., 13 S. Pennsylvania

avenue, Atlantic City.
Tull, John A. C., 811 Pacific avenue, Atlantic City.

Well, Edwin M., Virginia Apts., Atlantic City. Weinberg, Chas. B., 1006 Pacific ave-

nue, Atlantic City. Weiner, S. E., 30 N. Georgia avenue.

Atlantic City. Westcoat, Absalom S., 904 Pacific ave-

nue, Atlantic City. Westcott, Wm. C., 924 Pacific avenue,

Atlantic City.
Westney, Alfred W., 1212 Pacific avenue, Atlantic City.

Westney, Howard J., 1212 Pacific avenue, Atlantic City. Woolbert, Roy, 800 Pacific avenue, At-

lantic City. Wright, Elizabeth T., Galen Hall, Atlantic City.

Youngman, M. D., 1618 Pacific avenue. Atlantic City. Youngman, Thomas, 1618 Pacific avenue, Atlantic City.

Zellie, Ernst, Scullville.

BERGEN COUNTY.

Adams, Chas. F., 229 Union street. Hackensack. Alexander, Samuel, Park Ridge. Armstrong, Samuel E., Rutherford. Ayres, M. S., Fair View.

Banks, Hardy M., Englewood. Bell, J. F., Englewood. Best, Geo. B., Englewood. Bleasley, Chas., Garfield. Bleckstone, Frederick O., Oradell. Blickston, M., Westwood. Bonynge, H. A., Ridgewood. Bradner, Fred. E., Englewood. Brewoort, Henry H., Lodl. Brewster, Grey O., Grantwood. Brewster. Margaret P. Grantwood. Brewster, Margaret P., Grantwood. Brooks, Chas. D., Rutherford. Brough, F. T., 35 Court street, Hackensack. Brown, -----, Bergenfield.

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Brundage, ——, Palisades Park. Byers, C. W., Rutherford,

Calhoun, Chas., Rutherford. Carlini, Lorenzo, 96 Palisade avenue, Garfield.

Carpenter, Wm. P., Hasbrouck Heights. Clarke, John W., Lyndhurst.
Cone, R. S., Westwood.
Conover, E. E., Hasbrouck Heights.
Conrad, E. K., 40 Essex street, Hacken-

sack.

Contrell, Robert G., Tenafly. Corn, David, Ridgefield Park. Cottrell, Wm., Rutherford. Craig, W. C., Ridgewood. Cropsy, C., Rutherford.

Datesman, C. W., Oradell. Davenport, Geo. S., 45 Passaic avenue, Garfield.

Davis, John H., Rutherford. De Groff, E., Ridgefield.

De Mund, Cornelius A., Ridgefield.

Demund, John T., Ridgewood.

Deyoe, Charles P., Ramsey.

Dwyer, Joseph W., 11 Hobart Pl., Garfield.

Edwards. --, Englewood Hospital. Englewood. Elsing, Henry, Ridgefield Park. Evans, J. L., Woodeliff.

Finke, G. W., 14 Hudson street. Hackensack.

Freeland, F., Maywood.

Garrison, N. S., Rutherford. Goldstein, —, Englewood, pital, Englewood.
Gregory, Thirza L., Englewood. Englewood Hos-

Harris, M. A., Union street, Hackensack, Hellstern, E., Hudson Heights, Hellstern, S. C., Fairview, Hennesey, James F., Jr., 154 Passaic avenue, Garfield.
Hilfer, E. C., Fairview.
Hollister, H. H., Rutherford.
Holmes, Edwin, Englewood.
Hubbard, S. T., Edgewater.
Huff, Edmund N., 33 Tenafly Rd., Engleway wood. Huger, Jos., Fort Lee.

Keating, W. T., Wyckoff. Klefer, R. A., Midland Park. King, Chester A., Delford. Knapp, R. G., 16 Hudson street, Hackensack.

Knox, C. A., Ridgefield Park. Knox, H. L., 211 Union street, Hackensack.

Kothe, -, Fairview.

Langdon, Marie G., Coytesville. Langstroth, ____, Ridgefield.
Lansing, J. B. W., Tenafiy.
Leitner, Geo. A., Plermont,
Levetus, G. M., Westwood.

MacKellar, J. W., Tenafiy, McDivitt, J. R., Dumont, McDonald, H. G., 120 State street, Hackensack. McFadden, 281 State street, Hackensack.

Moenig, J. A., Park Ridge. Morris, S. V., Hasbrouck Heights.

Obrien, Paul W., Carlstadt. Ockford, G. M., Ridgewood. Ogden, W. E., East Rutherford.

Parkhurst, G. Harrison, Allendale. Payne, Jos., Midland Park, Pettit, H. H., Ridgewood. Phillips, —, Englewood.
Piklin, Geo. P., Bergenfield.
Pittis, Godfrey, Allendale.
Pratt, J. E., Dumont.
Proctor, J. W., Englewood.

Richardson, Chas. A., Harrington. Riordan, John, East Rutherford. Robinson, E. J. L., Rutherford, Robinson, S. E., Waldwick, Rodman, R. W., Allendale, Rush, Valentine, Jr., Englewood.

Sickenberger, Ernest F., Carlstadt. St. John, David, 256 State street, Hackensack.

Stone, B. D., Westwood. Stratton, Howard H., East Rutherford. Stratton, S., East Rutherford, Sullivan, Michael J., Palisade avenue, Englewood.

Swayze, A. A., 47 Essex street, Hackensack.

Taylor, W., Hackensack. Teeter, J. N., Lydecker street, Englewood.

Tommasi, Charles F., 195 Harrison avenue, Garfield. Townsend, T. E., Westwood.

Underwood, B. F., Ridgefield.

Vandewater, S. A., Oradell. Van Dyke, Joseph S., Hackensack. Van Horne, Byron G., Englewood. Van Horne, Carrie C., Englewood. Vroom, W. L., Ridgewood.

Ward, Alfred W., Closter.

Ward, G. Harold, Spring Lane, Englewood. White, G. H., 362 Main street, Hackensack. Williams, Wm., Rutherford. Wyckoff, J. T., Leonia. Wyler, Max, Fort Lee.

Zabriskie, Simeon J., Westwood.

BURLINGTON COUNTY.

Adams, Ellsworth, Beverly.

Baird, David, Florence.
Barrington, Richard C., Mt Holly.
Blair, J. E., Burlington.
Boysen, Peter, Riverton.
Branin, Jno. W., Mt. Holly.
Brick, Benj. K., Mariton.
Brown, David P., Crosswicks.
Brown, J. C., Vincentown.

Calver, G. W. H., Columbus. Cassady, J. B., Burlington. Chaffee, Newton H., Chesterfield. Currie, Jos. J., Beverly.

Davis, Jacob M., 6 West Union street, Burlington. Dey, Chas. L., Crosswicks. Dingee, C. E., 100 East Union street, Burlington. Dorety, Philip J., Florence. Dubell, Jas. E., Columbus.

Faringer, H. R., Mt. Holly. Flynn, J. J., Mt. Holly.

Gilbert, Jas. S., Bordentown. Glasgo, R. B., Burlington. Gordon, A. L., Burlington.

Haines, Clifford, Vincentown.
Haines, Edgar, Medford.
Haines, Joseph R., Mt. Holly.
Haines, W. P., Marlton.
Hall, H. B., Riverton.
Harbet, G. E. A., Pemberton.
Harker, Chas., Mt. Holly.
Hollingshead, E., Pemberton.
Hollingshead, Lyman, Pemberton.

Jacobs, N., Palmyra.
Janney, Francis S., Riverton.
Janney, J. D., Cinnaminson.
Jones, E. G., 437 High street, Burlingten.

Kille, Chalkley J., Moorestown.

Lambert, Chauncey D., Riverside. Leedom, I. C., Bordentown. Lemott, E., Riverside. Lore, A. P., Palmyra.

MacDonald, George, Riverton, Marcy, Alex., Riverton,

Martin, W. L., Rancocas.
Maurer, —, Palmyra.
McKelway, George I., Moorestown.
Mecray, Jas., Maple Shade.
Melcher, Wm. P., Mt. Holly.
Mendenhall, C. D., Bordentown.
Metzer, Emma P. W., Riverside.
Mills, Charles S., Riverton.
Mulford, E. R., East Union street, Burlington.

Newcomb, M. W., High street, Burlington.

Parry, W. C., Lumberton.
Parsons. Richard H., Mt. Holly.
Patterson, Austin H., Georgetown.
Powell, Benajiah B., Moorestown.
Prickett, Elmer D., Mt. Holly.

Remer, D. T., Medford. Richle, E. Roberts, Moorestown. Rink, W. F., 33 W. Union street, Burlington. Roberts, J. V., Beverly.

Shaw, Amos, Jacobstown.
Shipps, Wm. H., Bordentown.
Sitgreaves, Charles B., Pemberton.
Small, Alex., Riverside.
Stees, Herman A., Beverly.
Stokes, Jos., Moorestown.
Stroud, F. G., Moorestown.
Stroud, P. V. B., Mariton.

Thorn, Nathan, Moorestown. Tracy, George T., Beverly. Traub, Paul, Roebling.

Ulmer, D. H. B., Moorestown.

Vanderveer, Geo., Mt. Holly.

Wallace, —, Fieldsboro.
Wallace, C. R., Bordentown.
Weeks, E. P., Riverside.
Weiler, H. K., Delanco.
Whitaker, G. E., 446 High street, Burlington.
Whitehead, Eugnia, Mt. Holly.
Whitehead, G. L., Bordentown.
Whitehead, W. W., Mt. Holly.
Wilkinson, Geo. H., Moorestown.
Wintersteen, J. B., Moorestown.
Wittie, —, Palmyra.

CAMDEN COUNTY.

Allen, Lida T., Collingswood.
Anderson, Wm. M., Haddonfield.
Andrews, P. W., 327 Market street,
Camden.
Artz, Jerome L., 3000 Westfield avenue,
Camden.

Bailey, W. G., 712 Broadway, Camden. Banks, G. L., 801 Walnut street, Camden.

Barrett, Wesley J., 510 Broadway, Camden. Beek, J. Alonzo, Gloucester City. Benjamin, Dowling, 215 Cooper street, Camden. Bennett, John K., Gloucester City. Bennett, Samuel, 217 Market street, Camden. Bentley, David F., 8th, cor. State street, Camden. Bicker, Francis J., 553 Van Hook street, Camden. Blackwood, J. W., Haddonfield. Blackwood, James N., 1396 Haddon ave., Camden.
Blake, D. W. J., Gloucester City.
Blake, Duncan W., Gloucester City. Bonwill, Howard G., 921 S. 5th street, Camden. Braddock, C. S. J., Haddonfield. Branch, Clement T., 727 Walnut street. Camden. Bray, Walter S., 902 N. Second street, Camden. Browning, W. K., 315 Linden street, Camden. Bushey, Harry F., 701 Pine street, Camden. Bushey, S. G., 508 Haddon avenue, Cam-

Capuano, Giacinto, 829 S. Fourth street,
Camden.
Casperson, Robt., 215 N. Third street,
Camden.
Ciccone, Vincent, 927 S. Third street,
Camden.
Clement. Edgar, Haddonfield.
Clement. Lavinia B., Haddonfield.
Cook, Frank B., Laurel Springs.
Cramer, Alfred, 218 N. Fifth street,
Camden.

Davis, Albert B., 511 Cooper street, Camden. Davis, Henry H., 569 Benson street, Camden. Davis, John B., 205 N. Sixth street, Camden. Davis, Nehemiah, 224 Royden street, Camden. Davis, Wm. A., 511 Cooper street, Camden. Day, Grafton E., Collingswood. Dean, Horace B., 513 Penn street, Cam-Delap, W. L., Gloucester City. Donges, Clarence B., 525 Broadway, Camden. Donges, Jno. W., 525 Broadway, Camden. Donoho. - Merchantville. Doran, John G., 207 N. Sixth street, Camden. Drumley, Edward D. S., 602 N. Sixth street, Camden. Du Bois, W. G., 219 Broadway, Cam-

den.

Dunn, Fred. V., 623 S. Third street, Camden.

Elliott, W. R., 624 Grant avenue, Collingswood.
Elwell, Alfred M., 407 Cooper street,
Camden.
Evans, Harry D., 300 Carteret avenue,
Camden.

Fithian, Joel W., 608 Broadway, Camden. Flack, Arthur, 738 Washington street, Camden. Francis, Carroll H., 429 Market street, Camden.

Gallagher, Thomas J., 2826 Harrison avenue, Camden. Garrison, Daniel O., Collingswood. Garrison, Howard C., 428 N. Fifth street, Camden. Gaubert, Frank, 105 N. 23d street, Camden. Godfrey, E. L. B., 400 Linden street, Camden. Goldstein, Hyman I., 1441 Broadway, Camden. Grace, Harry H., 303 Cooper street, Camden. Grier, C. R., 821 S. Fifth street, Camden. Griscom, L. E., 604 Broadway, Camden. Grumbrecht, Oscar, 615 Market street, Camden.

Hadley, Chas. F., 3320 Federal street, Camden. Haines, R. I., 300 Kaighn avenue, Camden. Halbeison, Wm. J., 915 S. Fifth street, Camden. Haley, Jno. J., Gloucester City. Hallinger, E. H., Haddon Heights. Hatton, Louis, 427 Market street, Camden. Henry, Geo. W., Eighth and Walnut streets, Camden. Hirst, Levi B., 592 Federal street, Camden. Hoell, Conrad G., 565 Benson street, Ćamden. Hoffman, Ernest L., 3720 Westfield avenue, Camden. Hollinshed, Beulah S., 600 Benson street, Camden. Hollinshed, Ralph K., 509 Broadway, Camden. Horning, F. L., 615 Market street, Camden. Hovender, J. I., Atco. Howard, E. M., 401 Linden street, Camden. Howard, J. E., Haddonfield. Howell, Aaron, 111 N. Sixth street, Camden. Howell, Mary A., 111 N. Sixth street, Camden.

Hummell, Ernest G., 436 State street, Camden. Hurff, Jos. E., Blackwood.

Irenside, Allen S., 571 Benson street, Camden.

Iszard, R. J., Haddonfield. Iszard, Wm. H., 411 N. Fourth street, Camden.

Jackson, Charles H., 1010 Haddon ave-

nue, Camden. Jarrett, Harry, Broadway, Cor. Cherry street, Camden.

Jennings, Chas. H., 15 nue, Merchantville. 15 West Park ave-

Jennings, W. B., Haddonfield. Johnson, Charles H., 632 Benson street, Camden.

Jones, Fred'k, Jr., 213 N. 28th street, Camden. Jones, Fred'k A., 2901 Westfield avenue,

Camden. Jones, William S., 301 Penn street, Camden.

Kain, Wm. W., Fourth, Cor. Pine street, Camden.

Kelchner, Wm. I., 942 Cooper street, Camden.

Kensinger, Wm. H., 733 N. 27th street, Camden.

Kilgore, C. E., Gloucester City.

Kirk, Grant E., 1801 Broadway, Cam-

Knight, George B., 3406 Federal street, Camden.

Knowlton, Wm. W., 620 Benson street, Camden.

Lawrence, J. D., Merchantville. Leavitt, John F., 522 N. Third street,

Camden.

Lee, Thomas, 601 Walnut street, Camden.

Leeds, Mary, Haddonfield.

Lefevre, Annette, Blackwood.

Lippincott, A. Haines, 21 Broadway, Camden.

Litchfield, P. N., 1123 Kaighn avenue, Camden.

Long, W. S., Haddonfield.

Longshore, John B., 510 N. Fourth street, Camden.

Lyke, Charles H., 700 Broadway, Camden.

Lyon, L. C., Magnolia.

MacLennan, Wm., Gloucester City. Madden, T. W., Collingswood. Mahaffey, Jessie L., Seventh and Elm

streets, Camden. Marcy, F. W., 539 Penn street, Camden.

Marcy, John W., Merchantville. Markley, Paul N., 511 Cooper street, Camden.

Martendale, J. W., 2501 Federal street, Camden.

McAllister, Alex., 582 Federal street. Camden.

McGeorge, Wallace, 521 Broadway, Camden.

McLennon, J., Gloucester City. Mecray, Paul M., 405 Cooper street,

Camden. Middleton, M. F., 227 Cooper street,

Camden. Miller, Wm. E., Eighth and Mt. Vernon

streets, Camden.
Mines, M. K., 532 West street, Camden.
Moore, Frank F., 430 Stevens street. Camden.

Nicholson, George, 523 Cooper street, Camden.

Nicholson, Jos. L., 400 Penn street, Camden.

Osmun, M. W., 611 Broadway, Camden.

Palm, Howard F., 614 N. Second street, Camden.

Pancoast, Charles S., 205 Cooper street, Camden.

Parry, Edward, 946 Penn street, Camden.

Peacock, Thos., Collingswood, Pechin, Edward C., 300 Penn street, Camden.

Powell, Wm. R., 702 Market street, Camden,

Pratt, W. H., 406 N. Sixth street, Cam-

Quint, Silas H., 633 Market street, Camden.

Ramsdell, E. S., 521 N. Fourth street, Camden.

Raughley, Wm., Berlin. Redder, A. B., 1185 Kaighn avenue, Camden.

Robne, David S., 447 Kaighn avenue, Camden.

Richardson, Emma street, Camden. Emma M., 581 Stevens Richardson, James, 701 N. Sixth street,

Camden.

Riddle, H. S., 582 Benson street, Camden.

Roberts, Joseph E., 401 Broadway, Camden.

Robinson, Frank, 518 Linden street, Camden.

Rogers, Edward B., Collingswood. Rose, Horace L., 834 Federal street, Camden.

Ross, Alex. S., 608 Benson street, Camden.

Ross, L. C., Chews.

Rossell, Edward W., 322 N. Ninth street, Camden.

Rowntree, Leonard G., 864 N. Seventh street. Camden.

Saul, Dudley, 439 State street, Camden.

Schellenger, E. A. Y., 429 Cooper street, Camden, Shafer, Frederick W., 400 Haddon avenue, Camden. Sharp, ———, Berlin. Sharp, E. B., 504 Broadway, Camden. -, Berlin. den. Sheldon, E. S., Collingswood. Shemeley, Wm. G., 7 Haddon avenue, Camden, Sherk, H. H., 2647 Westfield avenue, Camden. Sherk, Katherine R., 2647 Westfield avenue, Camden. Seiber, I. G., Audubon. Smith, Charles, 30 N. Third street, Camden. Smith, J. Anson, Blackwood. Smith, R. Mills, 1633 Broadway, Camden. Smith, S. Bryan, 315 Penn street, Camden. Smith, W. H., Haddonfield, Stem, Frank A., Berlin. Stevenson, John R., 23 E. Main street,

Saunders, O. W., 1700 Broadway, Cam-

Taylor, H. G., 305 Cooper street, Camden. Taylor, John W., 829 Federal street. Camden Taylor, Rupert J., 501 Haddon avenue. Camden. Tullis, Eli R., 403 Stevens street, Camden.

Strack, Daniel, 326 Cooper street, Cam-

Haddonfleld.

đen.

Van Sciver, John E. L., 445 S. Fourth street, Camden.

Ward, Lettie, 706 Broadway, Camden. Waters, Geo. W., Haddon Heights. Westcott, Wm., Berlin. White, J. Orlando, 329 Cooper street, Camden. Wildman, Elias, Haddon Heights. Williams, F. E., Haddonfield. Wingender, W. P., 806 Market street, Camden. Woodward, Geo. D., 211 Broadway, Camden.

CAPE MAY COUNTY.

Behrman, I. P., Woodbine. -. Seaville. Blake, --

Cohen, N. A., Wildwood. Corson, Allen, Ocean City.

Dix, J. Morgan, Cape May Court House. Douglass, John S., Tuckahoe. Downs, I. M., Cape May Court House.

Ewing, Eldridge, Tuckahoe. Foote, Theo., Wildwood.

Garrison, J. E., Ocean City. Griscom, I. N., Ocean City.

Hand, Anna M., Cape May Court House. Hughes, Frank, Cape May City. Hutchinson, T. C., Ocean City.

Joffe, Jos., Woodbine.

Kelchner, ---- , Wildwood.

Lake, Wilson A., Cold Spring. Lake, Wilson R., Green Creek. Leach, Alonzo L., Cape May City. Leaming, Walter S., Cape May City. Lummis, M. F., Cape May Court House.

Mace, ———, Anglesea.
Marcy, V. M. D., Cape May City.
Marshall, Randolph, Tuckahoe.
Mayhew, Samuel D., Wildwood.
Mecray, Jas., Cape May City.
Moss, H. J., Woodbine.

Phillips, Walter, Cape May City. Physick, Emlen, Cape May City.

Reed, Howard, Ocean City.

Slaughter, James M., Rio Grande. Stevens, Albert G., W. Cape May. Stevens, A. H., Cape May City. Stimus, Howard G., Sea Isle City. Swain, Humphry, Goshen.

Tomlin, H. H., Wildwood.

Wales, W. R., Cape May City. Way, Eugene, Dennisville. Way, Julius, Cape May Court House.

CUMBERLAND COUNTY.

Bacon, S. L., Port Norris. Bateman, F. M., Cedarville. Bennett, Samuel D., Millville. Bradford, E. B., Port Norris. Buck, R. E., Newfield. Butcher, Charles, Heislerville. Butcher, Joseph, Heislerville.

Canwell, Jos. A., Vineland. Charlesworth, Irving, 84 N. Laurel street, Bridgeton. Charlesworth, R. R., Millville. Compton, J. M., Mauricetown. Cornwell, Alfred, 311 N. Laurel street, Bridgeton. Cornwell, W. Leslie, Bridgeton. Corson, E. S., Bridgeton. Cunningham, Geo., Vineland.

Day, S.. Port Norris. Diament, E. L., 118 E. Commerce street, Bridgeton.

Dunlap, Mary J., Vineland.

Elmer, Matthew K., 3 Franklin street, Bridgeton.

Ewing, S. Eldridge, Leesburg.

Faulkner, M. R., Vineland. Fogg, E. S., 68 N. Pearl street, Bridgeton.

Foote, Theodore, Vineland. Franckie, C. S., Millville. Fritz, Herbert, Shiloh.

Glendon, W. P., Cedarville. Good, W. T., 195 E. Commerce street, Bridgeton. Gray, C. M., Vineland. Greenwood, W. S., Rosenhayn.

Hallowell, Madeline A., Vineland. Halsey, J. S., Vineland. Hand, Leslie L., Leesburg. Harris, Allan, Greenwich. Harris, F. B., Canton. Hatch, L. F., Vineland.

James, G. E., Newport. Jones, C. P., Vineland. Jones, Ferdinand, Millville.

Kirchhoff, Wm. F., 98 Atlantic street, Bridgeton. Kirk, Irwin W., Millville. Kump, Reba L., Bridgeton.

Lloyd, Reba, 25 Bank street, Bridgeton. Loper, John C., Bridgeton. Lore, Harry E., Fairton.

Mander, A. J., Millville. Mayhew, C. H., Millville. Mayhew, S. D., 44 Atlantic street, Bridgeton. Miller, H. G., Millville. Moore, Jno. H., 114 E. Commerce street, Bridgeton.

Neal, Chas. B., Millville.

Oliver, David H., 183 N. Pearl street, Bridgeton.

Pascale, E. A., Vineland. Patterson, I., Vineland. Paullen, Geo. M., Shiloh. Putnam, J. H., Bridgeton.

Sawyer, Waldo F., Vinela Sewall, M. F., Bridgeton. Vineland. Sheppard, Frank R., Millville. Smith, Thos. J., 32 W. Commerce street, Bridgeton. Snyder, S. M., Greenwich. Spence, Geo., Leesburg. Stites, Elsmore, 122 E. Commerce street, Bridgeton, Streets, Jacob G., 188 E. Commerce street, Bridgeton.

Thompson, Jno. R. C., 236 E. Commerce street, Bridgeton. Tomlinson, Jos., 10 street, Bridgeton. Jos., 104 W. Commerce

Wade, J. W., Millville. Wainwright, E. L., Bridgeton. Wainwright, F. P., Bridgeton. Ware, James B., Bridgeton. Ware, J. Vernon, Millville. Weithaase, Helen, Vineland. Willets, J. Howard, Port Elizabeth.
Wilson, C. W., Vineland.
Wilson, H. H., Bridgeton.
Wilson, S. M., 121 Bank street, Bridgeton. Winslow, John H., Vineland.

ESSEX COUNTY.

Abraham, C. F., 122 S. Arlington avenue, East Orange.
Adams, John K., 475 Main street,

Adams, John L., 8 Baldwin street, East

Albano, Joseph, 200 Eighth avenue,

Alexander, Abraham J., 386 S. Eleventh street, Newark. Alexander, W. G., 67 Oakwood avenue,

Orange.

Orange.

Newark.

Orange.

Allen, G. S., Erwin Park, Montclair. Anderson, Henry J., 4 Orange Pl., Newark. Andrew, Herman B., 176 Summer avenue, Newark.

Antonie, Tirico, 9 Cioverbili Pl., Montclair. Areson, Wm. H., 153 Bellevue avenue, Montclair. Arnold, Edward A., 470 Central avenue, East Orange. Asher, Morris, 19 Court street, Newark. Atkins, R. T., 512 Central avenue, East Orange. Ayres, J. S., 21 Avon avenue, Newark. Bachmann, Chas., 72 S. Orange avenue, Newark. Bachmann, Wm., 342 S. Sixth street, Newark. Bagg. Linus W., 92 Elizabeth avenue. Newark. Bailey, Wm. B., 15 Hill street, Newark. Baker, Charles F., 47 Walnut street, Newark. Baker, Walter S., 250 Mulberry street, Newark. Baldwin, Ed. H., 77 Clinton avenue, Newark. Baldwin, S. H., 473 Clinton avenue, Newark. Baldwin, W. E., 117 N. Sixth street. Newark. Ball, C. E. A., Valley street, South Orange.

Ballantine, A. D., 152 Washington street, Newark.
Bancroft, Mabel B., 468 Central average. D., 152 Washington

Banister, Robert L., 315 Sixth avenue, Newark.

Banks, Charles W., 298 Main street, East Orange. Banks, Winifred D., 298 Main street,

East Orange.

Barber, Pliny W., 169-A Mt. Prospect

street, Newark.
Barkhorn, Henry C., 218 S. Orange avenue, Newark.

Barnes, ———, Millburn. Beams, Walter A., 648 Mt. Prospect avepue, Newark.

Becker, F. W., 478 Clinton avenue, Newark. Becket, Geo. E., 135 Walnut street,

East Orange.
Beggs, W. F., 17 Fulton street, Newark.

Beling, Christopher C., 109 Clinton avenue, Newark.

Bell, Arthur W., 222 Market street, Newark.

Bellini, Giovanni, 251 Eighth avenue, Newark.

Bellini, Pasquale, 251 Eighth avenue, Newark.

Belotta, Joseph, 46 Jefferson street, Newark. Benedict, Alfred C., 69 Ward Pl., South

Orange.

Bennett, Chas. D., 167 Clinton avenue, Newark.

Berardinelli, Carmine, 73 Eighth avenue, Newark.

Bianchi, A. R., 496 Market street. New-

Bingbam, Arthur W., East Orange. Birdsall, C. A., 196 N. 18th street, East Orange.

Bishop, --, Nutley.

Blackburne, George, 111 Park avenue, Newark.

Blair, James A., 157 Elizabeth avenue, Newark.

Blakelock, G. Clinton, 13 N. Grove street, East Orange. Blank, Louis N., 74 S. Eighth street.

Newark. Bleick, Theodore, 340 Waverly avenue,

Newark. Bleick, W., 526 Clinton avenue, New-

Bleyle, H. C., 15 Walnut street, New-

ark. Blumberg, Louis S., 80 Rose street, Newark.

Bond, Edwin, Caldwell.

Bowen, Elizabeth E., 37 Broad street, Newark.

Bowman, J. Floyd, Irvington.

Boyer, Arthur A., 54 Harrison street, East Orange.

Boyle. Thomas, 132 Belleville avenue. Newark.

Bradford, Stella S., 76 Church street, Montclair.

Bradshaw, Jas. H., 2 High street, Orange. Braun, Rudolph, 180 Polk street, New-

ark. Brien, W. M., 111 Main street, Orange.

Broadnox, Mary E., 63 Elizabeth avenue, Newark.
Brown, C. T., 69 Oakwood avenue,

Orange.

Brown, Emil, 65 Liberty street, Newark.

Brown, Jas. S., 43 S. Fullerton avenue, Montclair.

Brown, W. W., Montelair.

Bruce, Ida, Hilton.
Bruckner, Charles H., 267 S. Eighth
street, Newark.

Buermann, Wm., 352 Belmont avenue, Newark.

Bumsted, Clarence V. R., 700 Parker street, Newark.

Bunn, Frank C., 22 Hillyer street, Orange. Burne, John J., 558 Central avenue,

Newark. Burnett, H. K., 15 N. Arlington avenue,

East Orange. Burnett, Hayes J., 23 Maple avenue,

Montclair. Burns, E. L., 269 Broad street, Newark. Bush, A. C., Verona.

Buttner, Carl, 67 Clay street, Orange. Buvinger, C. W., 50 Washington street, East Orange.

Campbell, Dundas R., 12 Hill street, Newark.

Campbell, Herman B., 390 Washington

street, Newark.
Campbell, Wellington, Millburn.
Carman, F. F., 196 Claremont ave.,

Montclair. Carpenter, Elbridge, 207 Market street,

Newark. Carpenter, F. S., 281 Belleville avenue,

Newark. Carter, Helen L., 2 Lombardy street,

Newark. Caruso, Frank A., 35 Sixth avenue, Newark.

Case, Levi W., 41 Park street, Montclair. Cassini, H. C., 259 Essex avenue,

Orange. Cater, Douglass A., 59 Harrison street,

East Orange, Cauffman, Lawrence, 54 Bank street, Newark.

Cell?, Francis, 232 Hunterdon street, Newark.

Chamberlain, A. R., Maplewood. Chandler, H. M., 65 S. Orange avenue,

South Orange.

Chandler, W. J., 65 S. Orange avenue, South Orange. Chapman, Robt. W., 835 Bergen street, Newark.

D'Amico,

Newark.

Charloneau, Eugene G., 32 South street, ' Newark. Chatten, J. Franklin, 5 W. Park street, Newark. Chiger, Alexander S., 49 Hillside Pl., Newark. Christian, Albion C., Sharon avenue, Irvington. Christian, M. Osborne, Irvington. Church, C. Herbert, 1105 Broad street, Newark. Clark, A. M., 812 Highland avenue, Newark. Clark, J. Henry, 12 Walnut street, Newark. Clark, Patrick J., 132 Littleton avenue, Newark. Cobb. Geo. H., South Orange. Coe, R., 11 Warren street, Newark. Coffey, Michael, 216 Bank street, Newark, Coghlan, Jasper W., 1009 Broad street, Newark. Cohn, Herman, 281 Mulberry street, Newark. Coit, H. L., 277 Mt. Prospect avenue, Newark. Coles, J. A., 222 Market street, Newark. Collins, James W., 166 S. Eleventh street, Newark. Condon, John F., Belleville, Conkling, E. D., 224 Belleville avenue, Newark. Connelly, F. J., 537 Ferry street, Newark. Constantinides, Chas. L., 11 Broad street, Newark. Cook, H. F., 366 Sussex avenue, New-Cook, Mary, 50 Walnut street, Newark. Cooke, Wm. H., 10 N. Munn street, East Orange. Corana, Guiseppe, 9 State street, Newark. Corrigan, Geo. F., 344 Lafayette street, Newark. Corwin, T. W., 20 Central avenue, Newark. Horace C., 224 Broad street, Newark. Courtright, E. P., 11 Central street, Newark. Coyne, James A., 59 New street, Newark. Crawford, David H., 331 Belleville avenue, Newark. Cross, Anna. 20 Marshall street, Newark. Cummins, Jas. H., 413 Clinton avenue, Newark. Cyphress, O. E., Washington avenue, Belleville. Dacunto, Pellegrino, 131 Seventh avenue, Newark. D'Agoste, Oreste, 275 Adams street,

Newark.

Danzis, Max, 46 Mercer street. Newark. Davenport, Peter B., 764 S. Orange avenue, Newark.
Davidson, Louis L., 116 Spruce street. Newark. Davis, Lester R., 58 Elizabeth avenue, Newark. Davis, Wm. H., 42 Arlington avenue, East Orange, Dennis, John, 287 Belleville avenue. Newark. Dennis, Laban, 49 Ridge street, Orange. De Vansney, Winfield S., 102 Central De Vananey, Winfiel avenue, Newark. Devlin, Francis, 68 Congress street, Newark. Devlin, Hugh J., 72 Thomas street, Newark. Dias, Jos. L., 12 Central avenue, Newark. Dieffenbach, R. G. P., 185 Hunterdon street, Newark, Dieffenbach, Richard H., 185 Hunterdon street, Newark. Di Matteo, Francis R., 25 Breintnall Pl., Newark. Dirivaux, John A., 118 Newton street. Newark. Disbrow, Wm. S., 151 Orchard street, Newark. Dodge, Walter, 32 Cleveland street. Newark. D'Oench, F. E., Montclair. Donnelly, R. J., 26 Wallace Pl., Newark. Dougherty, C., 158 Washington street, Newark. Arthur, 27 Warren street. Dougherty, Newark. Dowling, C. E., 169 Day street, Orange. Duncker, Chas. H., 15 Court street, Newark. Duncker, F. W., 15 Court street, Newark. Duryee, Jno. L., 436 High street, Newark. Eagleton, Wells P., 15 Lombardy street, Newark. Easton, Elwood M., 146 Washington street, Newark. Eckardt, R. C., 18 S. Arlington avenue. East Orange. Edwards, David, Livingston. Edwards, Philip H., 113 Summit street, Newark. Edwards, Sarah M., 207 Sommer avenue, Newark. Egge, Julius K., 439 Washington street. Newark. Elliott, Daniel, 84 Washington street, Newark. Emerson. Linn, Orange. Emil, Hyman S., 173 Spruce street, Newark.

Anthony, 343 Bank street.

Emory, George B., 662 High street.

Newark.

English, J. R., 800 Clinton avenue, Newark. English, James, Clinton avenue, Irvington. Epler, Don A., 82 Congress street, Newark. Epstein, H. B., 465 High street, Newark. Erler, Eugene W., 455 Orange street, Newark. Farkes, M., 266 Watchung avenue, West Orange. Federman, Philip H., 145 S. Orange avenue, Newark. Feldman, Jacob F., 582 Market street, Newark. Feldman, Max, 51 Thirteenth avenue, Newark. Ferrier, J., 94 N. Parkway, East Orange. Ferris, S., 309 S. Ninth street, Newark. Fewsmith, Jos., 47 Central avenue, New-Fewsmith, Joseph L. 76 Central avenue, Newark. Finkelstein, Abraham, 262 High street, Newark. Fischer, Armin, 42 Sixteenth avenue, Newark. Fisk, E. L., Montclair. Fitzgerald, Paul, 178 N. Seventh street, Newark. Fitzpatrick, Edward F., 574 Warren street, Newark. Flachs, Adolph, 30 Courtland street, Newark. Flower, M. A., 43 Montgomery street, Newark. Folley, Etta, 562 Warren street, Newark. Foster, H. W., 10 The Crescent, Montclair. Foster, W. Story, 147 Summer avenue, Newark. Francis, Richard P., 12 Plymouth street, Montclair. Frazer, Samuel H., 19 W. Park street. Newark. Fredericks, G., 349 Camden street, Newark. Freeman, Richard D., South Orange. Freese, J. A., 436 Central avenue, East Orange Albert, 317 S. Orange avenue, Newark. Friess, Fred'k, 19 Elm street, Newark. Froehlich, J. C., 74 Ingraham Pl., Newark. Gabriel, Chas., 407 Littleton avenue. Newark. Gale, Geo. B., 784 Broad street. Newark. Gale, Wm. V., 259 Roseville avenue,

Newark.

Orange.

Gantz, Emma O., 28 Park avenue, East

Garrett, W. D., 478 Main street, East Orange. Gauch, Wm., 255 High street, Newark. Geddes, Isabel M., 16 James street, Newark. Gerbert, H. P., 329 Main street, Orange. Giuliana, Robert, 269 High street. Newark. Givens, Bradford W., 12 N. Grove street. East Orange. Glatzmayer, H. A., 204 Fairmont avénue, Newark. Gluckman, Isaac E., 442 High street, Newark. Goodwin, Wm. M., 66 Congress street, Newark. Gould, E. J. T., 78 Carlton street, East Orange. Granberry, D. Webb, 48 Harrison street, East Orange Granger, Wm. R., 27 Wallace Place, Newark. Graves, Anna M., 121 Mt. Prospect avenue, Newark.
Graves, Wm. B., East Orange.
Gray, Thos. N., East Orange.
Greenbaum, S., 135 W. Kinney street, Newark. Greenberg, Samuel, 67 Stratford Pl., Newark. Greenfield, B. H., 205 S. Orange avenue. Newark. Griffiths, C. B., 257 Clinton avenue, Newark. Groves, C. A., 303 Main street, East Orange. Guenther, Emil E., 159 W. Kinney street, Newark. Gurtner, T. E., 126 Court street, Newark. Hagar, Jno. F., 88 Ferry street, Newark. Hagerty, John F., 30 Wallace Pl., Newark. Hagney, F. W., 69 Pennsylvania avenue. Newark. Hahn, George H., 550 Bergen street, Newark. Hailperin, Clement J., 489 High street. Newark. Haines, Eleanor, 936 Broad street, Newark, Halsey, L. W., 69 Church street. Montclair. Haneman, F. T. East Orange. F. T., 219 Burnet street, T., Hannan, Jas. 11 The Crescent. Montclair. Harden, Albert S., 540 Warren street. Newark. Harrington, W. L., 180 Central avenue, East Orange. Harris, H. B., 39 Cleveland street, Orange. Harris, H. C., Glen Ridge. Harris, Leon, 504 Valley Road. West Orange. Harrison, Wm. M., Montclair.

Hart, H. M., 800 Mt. Prospect avenue, Newark. Harvey, Thomas W., 468 Main street, Orange. Hatfield, Hazel M., 55 Elizabeth avenue, Newark. Hauck, W. J., 110 Bloomfield avenue, Newark. Haussling, Francis R., 661 High street, Newark. Haux, Hans, 393 Springfield avenue, Newark. Hawkes, E. Zeb, 14 Fulton street, Newark. Hawley, S. S., 1 South street, Newark. Hayden, Jos. H., 395 Sussex avenue, Newark. Heath, Louanna, 19 N. Sixth street, Newark. Wm. W., South Orange. Heberton, Wm. W., South Orange. Heddon, J. H., 16 Baldwin street, Newark. Hemsath, John, 36 Spruce street, Newark. Herold, H. C., 1012 Broad street, Newark. Hewson, James S., 431 Avon avenue, Newark. Hexamer, Fred., 118 Wickliffe street. Newark. Hickok, G. B., 66 Lenox avenue, East Orange. Hicks. Wm. H., 273 Central avenue, Newark. Hill, Charles F., 51 Hamburg Pl., New-Hinckley, L. S., 182 Clinton avenue, Newark. Hinds, Harriet C., 76 N. Grove street. East Orange. Hirschberg, Samuel, 145 South Orange street, Newark. Hitchcock, U. E., 55 Belleville avenue, Newark. Hoeler, Wm. F., 388 S. Sixth street, Newark. Hoffman, Geo. P., 277 Littleton avenue, Newark. Hoffman, Gustave P., 235 Fairmount avenue, Newark. Hoffman, Jas., 518 Clinton avenue, Newark. Holden, Edgar, 617 Mt. Prospect avenue, Newark. Holland, J. A., Montclair. Holler, Henry B., 234 Montclair avenue, Newark. Hollister, L. E., 138 Clinton avenue, Newark. Holmes, Geo. J., 17 Elizabeth avenue, Newark. Hood. Philip J., 475 Clinton avenue, Newark. ·Hooper, Thomas B., 305 Orange street, Newark. Horsford, Frederick C., 277 Belleville avenue, Newark. Houck, Wm. J., 110 Bloomfield avenue.

Newark.

640

Hubbard, F. E., Montclair. Huberman, John, 141 W. Kinney street. Newark. Hughes, Dr., Bloomfield. Hunt, Ralph H., East Orange. Husbands, Samuel C., 123 Bank street. Newark. Husserl, Siegfried, 775 Clinton avenue. Newark. Ill, Chas. L., 188 Clinton avenue, Newark. Jil, Edgar A., 192 Clinton avenue, Newark. Ill, Edw. J., 1002 Broad street, Newark. Ives, E. D., Montclair. Jackson, Albert, Nutley. Jackson, George D., 938 Broad street. Newark. Jacobson, F. C., 969 Broad street, New-Jedel, M., 362 Warren street, Newark. Johnson, J. C., 10 Chestnut street, Newark. Johnson, Wm. M., 1 Richmond street. Newark. Judson, Wm. A., 211 Mt. Prospect avenue, Newark. Kaplan, Benjamin E., 771 Bergen street. Newark. Kaufhold, Frank, 589 Clinton avenue. Newark. Kaufman, Emil, 63 New street, Newark. Kaufman, Ignatz, 194 Spruce street. Newark. Keeney, Edwell B., 315 Clifton avenue. Newark. Keim, A. Madison, 7 Roseville avenue. Newark. Keim, W. F., 7 Roseville avenue, Newark. C., Keller, Sinney 166 Washington street, Newark. Kelly, J. W., 178 Berger street, Newark. Kelly, Thomas J., 457 Orange street. Newark. Kent, Geo. R., 39 Eighth avenue, Newark. Kerns, Francis J., 17 Fairmount avenue, Newark. Kessler, Henry B., 359 S. Sixth street. Newark. Kestner, Mark, 44 Mercer street, Newark. Kirkman, Leroy G., 256 Orange street. Newark. Kitchen, J. M. W., 94 Prospect street. East Orange. Klein, Harry, 465 S. Seventh street, Newark. Klein, Ignatz, 471 Springfield avenue. Newark. Klein, Maurice I., 127 Wickliffe street.

Newark. Knowles, F. E., South Orange. Koch, Louis A., 16 Chestnut street, New-

Korneman, Henry A., 251 Springfield avenue, Newark.

Kraemer, Chas. F., 29 Thirteenth ave-nue, Newark. Kraker, 236 Broad street, Newark.

Krause, Henry G., 317 S. Orange ave-

nue, Newark. Krichbaum, J. W., 207 Bellevue avenue, Montclair.

Krichbaum, Philip E., Montclair. Krichbaum, Theodora, Montclair.

Kupperman, Isaac, 191 Spruce street, Newark.

Laine, Edwin R., Caldwell.

Lamont, Geo. F., 202 Clinton avenue, Newark.

Lane, Frank B., 528 Main street, East Orange.

Lane, H. R., Caldwell. Langdon, R., Nutley.

Lauterwasser, Charles. 252 Littleton avenue, Newark.

Lawrence, Minnie J., 146 Washington street, Newark.

Lee, Stephen J., 29 Halsted street, East Orange.

Lehlbach. Chas., 22 Breintnall Place Newark.

Lehmacher, Frank, Jr., 166 Springfield avenue, Newark. Lehmacher. Franz, 166 Springfield ave-

nue, Newark. Levy, Julius, 1

191 Littleton avenue, Newark.

Lewis, G. Rae, 481 Summer avenue, Newark.

Leyenberger, Sam'l B. W., 98 Third avenue, Newark.

Lillibridge, Freeman C., 12 School street, Newark.

Lincoln, J. O., Montclair. Lippe, C. A. F., 250 Littleton avenue, Newark.

Lippincott, J. D., 207 Summer avenue, Newark.

Lockwood, Frank W., East Orange. Loeb, Alfred A., 378 Lafayette street,

Newark. Long, Herbert W., 102 Jefferson street,

Newark. Loux, Henry A., 479 S. Eleventh street,

Newark. Love, L. C., 16 Church street, Mont-

clair. Lowerie, Thos. W., 30 Hill street, New-

ark. Lowery, Jas. H., 79 Congress street,

Newark. Lowits, Otto, 26 Thirteenth avenue,

Newark. Lowy, Otto, 549 High street, Newark.

Luongo, F., 7 Hurlbert street, Orange. Luther, Carlista, South Orange.

Lyle, A. F., 203 S. Sixth street, Newark.

Lyons, Ernest M., 276 Broad street, Newark.

Maas, Max A., 329 High street, New-

ark. Mabey, J. C., 242 Claremont avenue, Montclair.

MacBride, Samuel A., 308 Lafayette street, Newark. MacDonald, J., Jr., 134 Greenwood ave-nue, East Orange.

Madison, Elizabeth, 449 High street, Newark.

Maghee, Jas. M., Orange Valley.

Malatesta, J. M., 176 Mt. Prospect avenue, Newark.

Mancusi-Ungaro, Ludovico, 86 Mt. Prospect avenue, Newark.

Mandeville, Chas. D., 673 Broad street, Newark.

Mandeville, Fred'k A., 945 Broad street, Newark.

Markens, Edward W., 442 High street, Newark.

Martin, Peter W., 190 Thirteenth avenue, Newark.

Martin, Susan F., 404 Avon avenue. Newark. Martine, Frank L., 256 Clifton avenue,

Newark. Martinetti, Carlo, 338 Central avenue,

Orange.

Martland, Harrison S., 1138 Broad street, Newark. Martland, Wm. H., 1138 Broad street,

Newark. Matheke, Otto G., 5 Fourth street, Newark.

Matthews, H. E., 12 Hillside avenue, Orange.

Matturri, Nicola M., 23 Mt. Prospect avenue, Newark.

Mautner, Emil, 257 Fairmount avenue, Newark.

Maxfield, J. Harris, 4 Myrtle avenue, Newark.

McBride, Hesser street, Newark. McCabe, Thomas G., 248 Mulberry

234 Lafayette street, Newark. artie, D. B., 93 Fourth avenue,

McCartie, Newark.

McCormick, D. L., 14 E. Kinney street, Newark.

McCormick, Henry D., Verona. McCroskery, J. H., 600 Main street,

East Orange. McDonald, Dr., Upper Montclair.

McEwen, Floy, 299 Belleville avenue, Newark.

McKee, Mary J., 459 High street, Newark.

McKenzie, Wm. H., 942 Broad street, Newark.

Mead, S. R., 2 Lombardy street, Newark.

Meeker, F. B., 63 First street, Newark. Meeker, I. A., 581 Valley R'd, Montclair. 642

Meeker, John L., 41 Avon avenue, Newark. Megaro, P., 320 High street, Newark. Menk, Paul E., 29 Thirteenth avenue, Newark. Mercelis, Elizabeth, 17 Plymouth street, Montclair. Archibald, Washington Mercer, 31 street, Newark. Merrill, Chas. F., 297 Central avenue, Newark. Merrins, Edward M., 15 Williams street, East Orange. Meyer, Harry, 132 Springfield avenue, Newark. Miller, E., 459 High street, Newark. Minard, E. Leroy, 197 N. Nineteenth street, East Orange. Mitchell, Agustus J., 74 South street, Newark. Mitchell, F. B., 477 Main street, Orange. Mitchell, Winthrop D., 23 S. Grove street, East Orange.

Mockridge, Oscar A., 240 Belleville avenue, Newark. Moffat, Edgar V., 476 Main street. Orange. Mohrbacher, Jno. J., 401 Bergen street. Newark. Moore, John D., Bloomfield. Morehouse, J. T., 2 Freeman street, Orange. Morgan, Brown, Benson street, Bloomfleld. Morris, Clement, 75 Wash avenue, Newark. Morris, W. B., 117 Irvington avenue, South Orange. Morrison, Caldwell, 399 Seventh avenue, Newark. Morrison, J. B., 97 Halsey street, Newark. Motzenbecker, Peter F., 680 High street. Newark. Motzenbecker, Wm. Javenue. Newark. Wm. J., 49 Pennsylvania Moulton, Chas. D., 142 Greenwood avenue, East Orange. Mount, W. B., 76 Watchung avenue, Montclair. Mueller, G. W., 61 Springfield avenue, Newark. Mulholland, J. K., 31 Franklin street, Newark. Muller, Joseph H., 867 S. Thirteenth street, Newark.

Mulliken, Louis C., 312 Belleville avenue, Newark. Murray, E. W., 91 Washington avenue, Newark. Muta, F. A., West Orange. Nadler, Fred. C., 31 Green street, New-

Nash, Albert B., 10 South Thirteenth

Nash, Wm. G., 271 Clinton avenue, New-

ark.

street, Newark.

Neare, Clifford R., East Orange. Newman, Emanuel D., 81 New street, Newark. Newman, James F., 98 Milford avenue, Newark. Newton, Anna B., 137 S. Orange avenue, South Orange. Newton, Richard C., 42 Church street, Montclair. Nivison, Anna, 5 North Eleventh street. Newark. Noble, W. C., 19 N. Fullerton avenue, Montclair. Nolte, H. W., 255 Mulberry street, Newark. O'Brien, D. J., 143 Centre street. Orange. O'Conner, B., 7 Fairfield street, Montclair. O'Crowley, Clarence R., 12 Lombardy street. Newark. Oertel, Henry B., 272 Littleton avenue, Newark. O'Gorman, Geo., 986 Broad street, Newark. O'Neill, Charles L., 297 Central avenue, Newark. Opdike, Ralph, Montclair.
O'Reilly, Myles, 323 S. Orange avenue, Newark. O'Reilly, Patrick M., 208 Littleton avenue, -Newark. Ortel, Henry P., 272 Littleton avenue, Newark. Orton, Henry B., 51 William street, East Orange. Ost, Henry, 471 Springfield avenue, Newark. Paczkowski, T., Bloomfield. Palmer, G. Howard, 11 Wakeman avenue, Newark. Parker, John E., 2 Girard avenue, East Orange. Parker, S. H., 72 Fourth avenue, East Orange. sonnet, V., 134 W. Kinney street. Parsonnet, Newark. Pascall, Thomas M., 677 Summer street, Newark. Patton, J. A., 161 Valley R'd, Montclair. Paul, Fred. M., 562 High street, Newark. Peck, Edw. E., Caldwell, Pelonze, Percy S., 671 Springfield ave-nue, Newark. Pennington, W., Irvington. Petry, W., 325 S. Orange avenue, Newark. Phelan, Edward, 18 South street, Newark. Philhower, Geo. B., Nutley. Pinneo, Frank W., 199 Garside street, Newark. Pitt, Jessie B., 207 Broad street, Bloomfield.

Polaner, George, 87 Pacific avenue, Newark. - Polevski, Jacob, 148 W. Kinney street,

Newark.

Poor, D. W., 27 Ridge street, Orange. Porter, Katherine, 149 William street, Orange.

Porser, O., Bloomfield.

Porzer, Oscar, 91 S. Ninth street, Newark.

Post, Dr. Bloomfield.

Potter, G. E., 87 Halsey street, Newark. Potter, Palmer A., East Orange. Potter, Robt. C., 25 Fulton street, New-

ark.

Povey, Harry C., 39 Mott street, Newark.

Preston, Perry B., German Hospital. Newark.

Price, N. G., 62 Boston street, Newark. Proctor, Jesse E., 95 Boyden street, Newark.

Pulsford, H. A., 475 Main street. Orange,

Quinby, Wm. O. G., 14 James street, Newark.

Rachlin, Israel J., 396 Clinton avenue, Newark.

Ramos, Nicholas I., 188 Market street, Newark.

Randall, C. H., 50 Third avenue, Newark. Ranson, Briscoe B., Jr., Maplewood.

Read, Joshua W., 82 Park Place, New-

ark. Reeves, A. R., 25 Halsted street, East

Orange. Reich, Louis, 176 W. Kinney street,

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644

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Anderson, Wm. E., Englishtown.
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McCormack, W. G., Madison.
McGrath, Katherine, Gillette.
McMurtrie, Wm. A., Mendham.
Mial, L. L., Morristown.
Miller, John, Netcong.
Mills, Clifford, Morristown.

Neldon, H. H., Netcong. Newcomb, George F., Pompton Plains.

O'Shea, M. F., Dover. Owen, F. W., Morristown.

Peck, E. M., Boonton.
Plume, Clarence, Succasunna.
Pollard, J. E., Chatham.
Prager, Bert A., Chatham.
Prout, T. P., Morris Plains.

Reed, R. Raiston, 20 Elm street, Morristown.

Romont, C. D. V., Pompton Plains. Riaicato, V., 42 Washington street, Morristown.

Ryerson, J. G., Boonton.

Scarborough, Chas. W., Madison. Scott, M. E., Morris street, Morristown. Seward, F. H., Madison. Shippe, David, Butler. Snyder, C. F., Madison. Sutphen, E. B., 147 South street, Morristown. Swain, Geo. M., Chatham.

Taylor, J. L., Boonton. Thayer, H. W., Netcong. Thorne, W. P., Butler.

Uebelacker, A., Morristown. Upchurch, H. C., Kenvil.

Vaughan, Harry, Morristown.

Walters, Jno., Wharton.
Wheeler, W. H., Boonton.
Wigg, Cuthbert, Boonton.
Wilkinson, Geo. W., Morristown.
Willis, George S., 180 South street, Morristown. Wolfe, Theo. F., Succasunna. Wolfe, Wm. J., Chatham. Woodruff, Mrs. H. M. C., Boonton.

OCEAN COUNTY.

Allen, Howard, New Egypt.

Barrett, W. K., Manahawkin, Bickler, Wm. J., New Egypt. Blake, D. W., Forked River. Brouwer, Frank, Toms River. Bunnell, F. N., Barnegat.

Carrigan, E. S., Pt. Pleasant. Conover, C. H., Tuckerton. Conover, Howard, Barnegat.

Davis, H. H., Island Heights. Denniston, Frank, Point Pleasant. Disbrow, E. C., Toms River. Disbrow, R. L., Toms River. Disbrow, V. M., Lakewood.

Foltz, Clinton, Beach Haven.

Hance, I. H., Lakewood. Hawley, B. F., Bay Head. Heron, A. M., Lakewood. Hilliard, J., Manahawkin. Hilliard, P. K., Manahawkin.

Jones, Ralph, Toms River.

Katzenbach, W. H., Bay Head.

Laine, J. L., Manahawkin, Lane, Lewis, Tuckerton. Lindley, C. L., Lakewood.

Middleton, W. H., Pt. Pleasant. Milton, D. J., Bay Head. Moren, Michael A., New Egypt.

Pittis, Harold, Lakehurst.

Reeves. M., Tuckerton.

Schauffer, W. G., Lakewood. Schureman, I. C., Toms River. Scull, J. I., Island Heights. Sparks, L. H., Lakewood.

Todd, J. Edward, Toms River. Turris, G. S., Burrsville.

Wallace, Gilbert E., Forked River. Willis, Herbert, Beach Haven. Wood, O. A., Forked River. Woodward, Chas. P., New Egypt.

Zeigler, Dr., Island Heights. Zeitler, Forked River. PASSAIC COUNTY. Agnew, Frank, 29 Hamilton street, Paterson. Alexander, Archibald, 379 Union avenue, Paterson. Appleton, Walter F., 98 Lexington avenue, Passaic. Armstrong, Robert R., 149 Lexington avenue, Passaic. Atkinson, Jas. W., 27 Church street, Paterson. Balleray, Geo. H., 115 Broadway, Paterson. Baum, Soma, 150 Second street, Passaic. Becker, Leo V., 81 Ward street, Patergon. Becska, Victor G., 19 Second street, Passaic. Berdan, Edith, 285 Summer street. Paterson. Bergin, J. V., 19 Church street, Pater-SOD. Blundell, Wm., 236 Main street, Pater-SOD. Bondy, Sigmond E., 13 Monroe street. Passaic. Borden, D. P., Hamilton and Ellison streets, Paterson. Bowden, David T., 117 Paterson street, Paterson. Bradsworth, John H., 261 River street. Paterson. Briody, Harry E., 885 Main street, Paterson. Briody, James F., 385 Main street. Paterson. Browne, J. A., 311 Van Houten street, - Paterson. Browne, Wm. C., 96 Grant street, Pas-

saic. ien, Florence A., 287 Broadway,

Bullen,

Paterson.

Bullen, Victor, 148 Hamilton avenue, Paterson.

Campbell, C. M., 642 Main street, Pater-Carlough, David J., 426 Ellison street,

Paterson. Carlough, Edna C., 426 Ellison street,

Paterson. Carr. Ada, Vreeland avenue, Paterson. Carroll, C., Passaic. Carroll, Wm. H., 156 Lexington avenue,

Passaic.

Case, M. V., 39 Lincoln street, Passaic. Casini, Ernest, 204 Madison street, Passaic.

Caverly, Fred. S., 185 Passaic avenue, Passaic.

Chase, Wm. E., People Bank Bldg., Passaic. Church, Chas. A., 128 Prospect street,

Passaic. Clay, Thomas A., 353 Totowa avenue,

Paterson. Cogan, Henry, 81 Bridge street, Pater-

son. Colacurci, Nicola, 26 Ward street, Pater-Bon.

Colfax, Wm., Pompton Lakes.

Corbin, L. C., 198-A Jefferson street, Passaic.

Cotton, Norman F., 217 Graham avenue, Paterson.

Coursen, T. D., Oak Ridge.

Crooks, Jas., 44 Church street, Paterson.

Crounse, D. R., 84 Bloomfield avenue, Passaic.

Cummings, Mary G., 449 Van Houten street, Paterson.

Curts, James II., 310 Broadway, Paterson.

Datesman, H. F., 141 President avenue, Passaic.

Day, H. V., Bloomingdale,

DeAugustinis, August, 316 Passaic avenue, Passaic.

De Bann, Edwin, 39 Prospect street, Passaic.

Decker, Wm. F., 122 Broadway, Pater-SOD.

De Jager, S., 83 Bridge street, Paterson. Demarest, F. F. C., 29 Academy street, Passaic.

Denner, Edward F., 221 Broadway, Paterson.

Denton, Peter P., 1059 Madison avenue, Paterson.

Dingman, Thomas, 215 Broadway, Pater-

son. Donahue, T. B., 387 Main street, Paterson.

Drews, Hugo, 145 Lexington avenue, Passaic.

Drury, Alfred. 160 Broadway, Paterson.

Duncan, O., Haledon. Dunning, Walter L., 533 River street, Paterson.

Ekings, Frank P., 25 Church street, Paterson. Emerson, Herbert, 84 Broadway, Paterson.

Faulkner, Jas. N., 149 Park avenue, Paterson.

Feigonoff, Isadore, 7 Bridge street. Paterson.

Fischer, Geo., 90 Auburn street, Pater-SOD.

Flitcroft, Wm., River street, Paterson. Flood, G. B., 279 Broadway, Paterson.

George, Roger P., 260 Park avenue, Paterson.

Gignoud, J. Ernest, 247 Gregory avenue, Passaic. Gillson, Jno. F., 391 Main street, Pater-

son. Gillson, M. W., 11 Lee Place, Paterson.

Glasgow, Thomas M., 190 Washington Pl., Passaic.

Golding, Harry N., 119 Broadway, Paterson. Green, Wm. S., 73 Paterson street,

Paterson Gutherson, Wm. F., 1013 Madison avenue, Paterson,

Hagen, Orville R., 160 Broadway, Paterson.

Haitinger, Coleman, Clifton.

Haitinger, Kalman, 125 Second street, Passaic.

Halnan, John J., 530 Main street, Paterson.

Harris, P. A., 26 Church street, Paterson.

Harris, Samuel E., 160 Third street, Passaic, Henion, E. L., 16 Church street, Pater-

son. Walter, 98 Ellison street, Hibsham, Paterson.

Jacobs, Wm. H., 95 N. Main street, Paterson.

Joelson, Morris S., 132 Paterson street, Paterson.

Johnson, W. B., 170 Broadway, Paterson.

Joyce, Leo H., 259 Madison avenue, Passaic.

Joyce, Thomas F., 259 Madison avenue, Passaic.

Kane, Chas. J., 349 Grand street, Pater-

Kane, Thos. J., 349 Grand street, Paterson.

Keating, Charles A., Jr., 184 Ellison street, Paterson. Keller, Frank J., 379 Totowa avenue,

Paterson. Kinne, P. S., 171 Carroll street, Pater-SOD. Kip, Henry, 90 Fair street, Paterson.

40

660

Koch, George J., 130 Beech street, Paterson. Korshet, Morris, 171 Columbia avenue, Passaic.

Leal, Jno. L., 194 Broadway, Paterson. Levine, Israel, 53 Paterson street, Paterson.

Liebson, Michael, 315 Passaic street, Passaic.

Lucas, H. H., 192 Van Houten street, Paterson. Luck, Paul M. K., 174 Monroe street,

Passaic. Lydecker, A. A., Haledon.

MacAlister, W. Wallace, 21 Church street, Paterson.

MacAlister, Wm. W., Little Falls. Machlin, Abraham, 72 Second street, Passaic.

Macintosh, M. A., 237 Broadway, Paterson.

MacLauray, D. H., West Milford.

Maclay, Joseph, 239 Broadway, Paterson.

Magennis, B. C., 231 Broadway, Paterson.

Mohony, Mary C., 39 Lincoln avenue, Passaic.

Maines, R. G., West Milford.

Makepeace, Frank C., 60 N. Main street, Paterson.

Maps, Howard L. 53 Passaic avenue.

Passaic. Marsh, E. J., Jr., 24 Church street, Paterson.

McBride, A. F., 397 Main street, Pater-

McCoy, Jno. C., 292 Broadway, l'aterson.

McDede, Frank, 908 Main street, Pater-SOD.

Meloney, L. F., Clifton. Michela, Luigi S., 208 Market street, Paterson.

Millspaugh, Daniel T., 25 Totowa avrnue, Paterson. Mitchell, Charles R., 16 Church street,

Paterson.

Morrill, James P., 8 Church street, Paterson.

Murn, Charles J., 33 Clark street, Paterson.

Neer. Frank, 95 Bridge street, Pater-

Neer, Rush, 95 Bridge street, Paterson.

Neer, Wm., 245 Broadway, Paterson. Newman, Arthur L., 147 Ellison street,

Paterson.

Norval, Wm. A., 419 Main street, Paterson.

O'Donnell, Jas., 82 Ward street. Paterson.

O'Grady, Thos. F., 374 Grand street, Paterson.

Oram, Joseph H., 95 Bloomfield avenue, Passaic.

Parke, Henry, 9 Church street, Pater-

Paton, Thos. L., 661 E. Twenty-fourth street, Paterson.

Pedrick, A. C., 167 Jefferson street, Passaic.

Peter, Walter, 156 Passaic avenue, Passaic.

Pike, Horace V., 200 Ellison street. Paterson.

Putaturo, Nichola, 27 N. Fifth street. Paterson.

Rauschenbach, Paul E., 108 Broadway. Paterson.

Reigrod, Charles, 141 Broadway, Paterson.

Reynolds, H. C., 44 Grove street, Passaic.

Ricardo, N. C., 57 Passaic avenue. Passaic.

Riggs, Joseph P., Oak Ridge.

Ritter, John J., 16 Smith street, Paterson.

Rock, Stephen, 96 Grand street, Passaic.

Roemer, Jacob, 82 Fair street, Paterson.

Rogers, Benj. H., 213 Broadway, Paterson, Rogers, Lawrence H., 213 Broadway,

Paterson.

Rosenthal, Leo V., 60 N. Main street. Paterson. Rubino, Antonio, 43 Cross street, Pater-

son. Russell, Charles B., 27 Clark street,

Paterson. Ryan, John N., 136 Jefferson street, Passaic.

Sabatino, Achille, 98 Prospect street, Paterson.

Sandt, F. R., 466 Park avenue, Pater-SOD. Schiffmann, Samuel, 148 Passaic avenue.

Passaic. Scribner, Chas. H., 82 Ward street,

Paterson.

Shipper, David W., Wanaque. Silberstein, Samuel, 141 Broadway, Paterson.

Solatinow, Joseph, 269 Madison avenue, Passaic.

Spickers, Wm., 6 Church street. Paterson. Stagg, Frank M., 88 Lexington avenue.

Passaic. Stemmerman, W. H., Main avenue and Jefferson street, Passaic.

Stewart, Jas. M., 168 Paterson street. Paterson.

Stinson, Richard, 158 Broadway, Pater. son.

Sullivan, D. W., Washington Place. Passaic.

Sullivan, Jno., 43 Passaic avenue, Passaic. Surmann, Isaac, 89 Bridge street, Paterson.

Synott, Martin J., Little Falls.

Tattersall, J., 1042 Main street, Pater-

Temple, A. H., 164 Jefferson street. Passaic.

Terhune, Percy H., 162 Gregory avenue, Passaic. Terribury, Geo. W., 146 Broadway,

Paterson.

Todd, Francis H., 83 Auburn street, Paterson.

Townsend, S. C., 113 Paterson street, Paterson.

Tresca, Ettore, 29 Park Pl., Passaic. Tuers, G. E., 12 Church street, Pater-

Utter, Sylvester, 12 Church street, Paterson.

Van Deinse, W. F., Little Falls. Vanderbeek, Andrew B., 160 Broadway, Paterson.

Vander Clock, Cornelius, 179 Jefferson street, Passaic.

Van Dyne, Dr., Little Falls. Van Eess, John, 78 Hamilton avenue, Paterson.

Van Noort, Frank J., 393 Main street, Paterson.

Van Riper, A. Ward, Main avenue, Passaic.

Van Riper, Cornelius, 207 Main avenue, Passaic.

Van Schott, G. J., 135 Lexington avenue, Passaic.

Van Schott, Gerard J., 125 Lexington avenue, Passaic.

Van Vrawken, G., 155 High street, Passaic.

Varvaro, Ettore, 35 Park Place, Passaic, Veenstra, William, 18 Church street. Paterson.

Vigna, Fortunato, 35 Ward street, Paterson.

Vreeland, Frank D., 144 Carroll street, Paterson.

Vreeland, Ralph D., 79 Bloomfield avenue, Passaic.

Walton, Gordan G., 8 Church street, Paterson. Ward, Albert H., 404 Totowa avenue.

Paterson. Warren, D. Edward, 327 Paulison ave-

nue, Passaic. Was, Francis J. T., 75 E. Sixteenth

street, Paterson. Welsh, Geo. T., Passaic avenue, Passaic.

Whalen, Wm. J., 141 Ward street, Paterson.

White, Sarah C. S., 33 Elm street, Passaic.

Wiley, S. F., 17 Church street, Pater-

son. Willard, Harry S., 44 Church street, Paterson.

Williams, Hiram, 154 Monroe street, Passaic.

W., 401 Ellison street, Williams, J. Paterson.

Wolfe, Aaron R., 500 Union avenue. Paterson.

Yates, John S., 286 Broadway, Pater-Young, W. H., Little Falls.

SALEM COUNTY.

Allen, L. A. D., 69 N. Main street, Woodstown.

Barnhart, Newton H., Penns Grove. Beckett, A. T., Salem. Bilderback, Francis, Salem. Black, M. Stanley, Elmer.

Campbell, John, Elmer. Carpenter, Wm. H., 2131/4 Broadway, Salem.

Cheeseman, C. P., Elmer. Cheeseman, Henry, 297 E. Broadway, Salem.

Conover, J. V., Elmer.

Davis, R. M., 260 E. Broadway, Salem. De Grofft, E. E., Woodstown.

Ewen, Warren D., Alloway.

Fitch, Geo. W., Daretown. Fleming, C. L., Penns Grove.

Good, Wm. F., Quinton.

Harris, F. B., Canton.
Hilliard, W. T., Salem.
Hires, N. S., 69 Market street, Salem.
Hummel, L. H., Salem.
Husted, F. B., Quinton.
Husted, J. M., Woodstown.

Jackson, Henry, 83 Market street, Salem. James, Wm. H., Pennsville. Johnson, Harry T., Pedricktown.

Lummis, C. Percy, Penns Grove.

McGeorge, Emerson, Woodstown. Miller, L. H., Woodstown.

Patterson, J. A., Salem.

Sharpe, E. S., Salem. Sherron, C. M., Broadway, Salem. Smith, Ellen B., Salem. Smith, John T., Salem. Smith, W. Scott, Salem. Simmerhill, Jno., Penns Grove.

662 REPORT OF STATE BOARD OF HEALTH.

Taylor, Sarah, Woodstown. Thomas, C. W., Woodstown.

Waddington, B. A., 260 E. Broadway, Salem. Wiley, David, Salem. Woodruff, A. B., Elmer.

SOMERSET COUNTY.

Adams, Dan'l C., North Plainfield. Anderson, J. E., Neshanic.

Beekman, J. B., Pluckamin. Buchanan, J. Hervey, North Plainfield.

Cooley, J. H., North Plainfield. Cooper, J. Howard, Middlebush.

Davis, E. C., Bound Brook.
Davis, H. V., North Branch.
Dearborn, R. B., Peapack.
De Bois, F. E., North Plainfield.

Ely, L., Somerville,

Farrow, E. F., Peapack. Field, Frank L., Liberty Corner. Fields, R. F., Bedminster. Fisher, C. R. P., Bound Brook. Flynn, T. H., Somerville.

Gaston, Mary, Somerville. Graff, E. R., Somerville.

Halstead, C. F., Somerville. Hecht, J. P., Somerville. Henry, George, Somerville. Hughes, Fred. J., North Plainfield.

Jones, Fred., Basking Ridge.

Kaucher, H. L., Bound Brook. Kay, C. R., Peapack.

Lanning, L. M., Somerville. Lawton, A. A., Somerville. Leahey, Dr., Bound Brook. Long, W. H., Somerville.

McCanaughy, Francis, Somerville. McWilliams, J. F., Somerville. Meigh, Josiah, Bernardsville. Merrill, Wm. H., Somerville. Mosher, Abram B., Griggstown.

Nixon, Warford L., Raritan.

Pennington, Dr., Bernardsville. Pittis, Albert, North Plainfield.

Reed, L. T., Somerville. Reeve, Malvin, Rocky Hill. Robinson, J. T., Bound Brook. Rogers, H., Bound Brook. Ross, J. Gorden, Basking Ridge.

Schlesinger, Raritan, Seaman, B. F., Raritan, Smalley, M. C., Gladstone. Stillwell, A. L., Somerville. Sutphin, Fred. C., Bernardsville.

Taylor, S. O. B., Millstone.

Voorbies, A. F., Basking Ridge.

Wild, Fred. E., Bound Brook.

Zeglio, P. J., 48 Somerset street, North Plainfield.

SUSSEX COUNTY.

Allen, J. M., Sussex. Andrus, T. H., Sparta. Ayers, Edward A., Branchville.

Beatty, E. E. B., Newton. Brooker, John B., Swartswood, Burd, D. C., Ogdensburg.

Clark, Jeptha C., Andover. Cole, Martin, Jr., Hainesville. Coleman, Jos. G., Lafayette. Crane, A. L., Beemerville.

Dowling, C. E., Sparta. Dunning, Chas. M., Coleville.

Furgeson, Benj. W., Sussex.

Garrison, Frank, Lafayette.

Harp, H. J., Sussex. Hood, Bruno, Newton.

Jacob, A. N., Sparta. Jones, Edward W., Layton.

Landes, E. W., Stillwater.

McCloughan, Harvey J., Newton, McCloughn, J. H., Swartswood. Miller, J. N., Newton, Moore, John, Sussex, Morrison, Ephraim, Newton.

Nelden, C. R., Stanhope.

Pellet, J. B., Hamburg. Potter, E. B., Newton. Price, J. Cole, Branchville.

Ranson, Alonzo A., Layton. Riddell, Dr., Branchville.

Smith, Warren H., Newton. Strader, John C., Lafayette. Straley, S. B., Newton.

Uptegrove, E. P., Hamburg.

Van Gaesbeck, H. D., Sussex. Voorhees, Shepard, Newton.

Wilbur, F. P., Franklin Furnace. Woolfe, Jos., Colesville.

UNION COUNTY.

Adams, D. C., 46 Grove street, Plainfield. Anderson, J. C., 405 W. Fourth street,

Plainfield.

H., 423 Park avenue, Anthony, W. Plainfield.

Ard, F. C., Plainfield.

Bailey, Frederick R., 1165 E. Jersey street, Elizabeth. Bailey, George W., 1165 E. Jersey

street, Elizabeth.

Baker, R. D., 56 De Forest avenue, Summit.

Bellino, Pasquale, 811 Third avenue, Elizabeth.

Berg, J. F., Plainfield. Blair, James A., Kenilworth.

Blair, T. D., 414 Park avenue, Plainfield.

Boone, W. C., Plainfield. Boozan, Wm. E., 1028 E. Jersey street, Elizabeth,

Brennan, A. K., 401 Grant avenue, Plainfield.

Brown, F. Halstead, Roselle.

Brown, Frank H., 580 Westfield avenue, Elizabeth.

Brown, Stanley R., 287 N. Broad street, Elizabeth.

Buchanan, J. H., 43 Duer street, Plainfield.

Buck, Abijah O., 55 Cherry street, Elizabeth.

Bunting, P. D., 1060 E. Jersey street, Elizabeth.

Burling. Jno., Summit. Burnett, Thomas, 253 Court street, Elizabeth.

Burpeau, Josephine, street, Elizabeth. 1141 E. Jersey

Carman, J. H., Plainfield. Cladeck, W. E., Rahway.

Clawson, M. L., Plainfield.

Coles, J. Ackerman, Scotch Plains.

Conover, J. H., 1077 E. Jersey street, Elizabeth.

Cooley, R. L., 98 Westervelt avenue, Plainfield.

Cooper, Sherman, Westfield.

Corbusier, 616 Park avenue, Plainfield. Cornwell, F. W., 192 E. Front street,

Plainfield.

Cregar, P. B., Plainfield.

Crouthers, Anna, 1120 E. Jersey street,

Elizabeth. Currie, W. W., 515 Madison avenue, Plainfield.

D'Agosto, Oresto, 633 Third avenue, Elizabeth.

Davis, Thos. S., Plainfield. Decker, Chas. T., 180 Elm street, Westfield.

Dengler, H. P., Springfield.

Desmond, Lawrence P., 142 Court street, Elizabeth.

Dolan, Thomas E., 250 First avenue, Elizabeth.

Dubois, F. E., 431 Park avenue. Plainfield.

Dundon, Arthur H., Plainfield.

Eaton, A. R., 1159 E. Jersey street, Elizabeth.

Endicott, G. W., 621 Park avenue, Plainfield.

English, D. E., 305 Springfield avenue. Summit.

Fischer, Alexander, 512 E. street, Elizabeth. Funk, Joseph, 615 Elizabeth avenue,

Élizabeth.

Gale, Wm., Westfield. Galloway, Geo. E., Rahway. Gesswein, C. A., Bristol Bldg., Plain-

field.

Gilpin, F. B., Cranford.
Goldstein, Isadore, 839 Elizabeth avenue, Elizabeth.

nue, Elizabeth. Gorton, E., 19 Prospect street, Summit. Green, James R., 463 N. Broad street, Elizabeth.

Grier, E. B., 400 Westminister avenue, Elizabeth.

Hamil, R. H., Summit. Harrison, Jos. B., Westfield.

Hedges, B. Van D., 703 Watchung avenue, Plainfield. Hedges, E. W., 703 Watchung avenue,

Plainfield.

Higgins, Thomas F., 961 William street. Elizabeth.

Holmes, C. B., Rahway. Hough, H. Page, Rahway.

Hubbard, H. V., 420 Central avenue, Plainfield.

Hughes, F. J., 49 Somerset street. Plainfield.

Hurley, J. William, 36 Third street, Elizabeth.

Irwin, F. C., Cranford.

Keefe, S. J., 1063 E. Jersey street, Elizabeth.

Keenan, J. H., 319 Union avenue, Elizabeth.

B., Springfield avenue, Keeney, Summit.

Keeny, Sarah D., Plainfield.

Kelly, George G., 1156 E. Jersey street. Elizabeth.

Keough, John W., street, Elizabeth. 121 Livingston

Kepple, Carl R., 564 Madison avenue, Elizabeth.

Kinch, Fred A., Westfleld.

Knauer, George, 141/2 Third street, Elizabeth.

Korngut, Samuel, 167 Second street, Elizabeth. Krans, Clara D., 920 Park avenue, Plainfield. Krans, E. S., 920 Park avenue, Plainfield.

Laird, Geo. S., Westfield. Lamson, W. J., 120 Summit avenue, Summit. Lamy, Anthony W., 132 E. Jersey

street, Elizabeth.

Lawrence, Alfred, 1086 Elizabeth avenue, Elizabeth.

Lawrence, Wm. H., Summit.

Lawson, J. T., 308 E. Third street, Plainfield.

Leary, Joanna, 511 N. Broad street. Elizabeth.

Livengood, Horace R., 1105 E. Jersey street, Elizabeth. Livengood, T. F., 1105 E. Jersey street,

Elizabeth. Longbothum, 524 Park avenue, Plain-

field. Lowrie, H. H., 516 Park avenue, Plain-

fleld.

Lufburrow, C. B., 327 W. Front street, Plainfield.

MacConnell, C. W., Cranford. Mawson, Gertrude, Summit. McConnell, Joseph, Cranford.

McElhinney, Dennis R., 626 Elizabeth avenue, Elizabeth Moister, R. W., 7 Norwood avenue,

Summit.

Montford, Robert, 1051 E. Jersey street, Elizabeth.

Morris, W. B., Springfield.

Mravlag, Victor, 1062 E. Jersey street, Elizabeth.

Munger, R. T., Fanwood. Murray, W. H., 737 Watchung avenue, Plainfield.

Newman, L. G., 318 E. Broad street, Westfield.

Peck, Geo., 926 N. Broad street, Elizabeth.

Perkins, J. L., Cranford.

Pierson, Frederick H., 340 Westmin-ster avenue, Elizabeth. Pierson, Henry C., Roselle. Pierson, H. Morton, Roselle. Pittis, Albert, 178 E. Front street,

Plainfield.

Powell, Grace, 950 Park avenue, Plainfield,

H., 111 Putnam avenue, Plainfield.

Probasco, Norman H., 621 Park avenue, Plainfield.

Prout, Thomas P., Summit.

Quinn, Stephen T., 326 S. Broad street, Elizabeth.

Randolph, Jno. M., Rahway. Rayne, J. Edward, 655 Elizabeth avenue, Elizabeth. Reilly, J. P., 215 Elizabeth avenue,

Elizabeth.

Reiner, Jacob, 1053 Elizabeth avenue, Elizabeth.

Risk, J. Boyd, Summit.

Robinson, Moses, 1016 E. Grand street, Elizabeth.

Rushmore, E., Plainfield.

Savoye, R. G., Westfield. Schlichter, Chas. H., 1024 E. Jersey street, Elizabeth.
Searles, W. B., Roselle.
Sell, F. W., Rahway.

Shangle, Milton A., 1148 E. Jersey street, Elizabeth.

Sheppard, A. E., 427 W. Front street, Plainfield.

Sherrefs, Russell A., 1158 E. Jersey street, Elizabeth.

Silvers, Elihu B., Rahway.

Sinclair, Robert R., Westfield. Smith, T. V., Westfield.

Smith, T. V., Westfield. Smith, Wm. R., Roselle Park.

Spirito, Francesco, 634 Third avenue, Elizabeth.

Steele, F. A., 109 Summit avenue, Summit,

Stein, Emil, 155 Second street, Eliza-

Stern, Arthur, 218 E. Jersey street, Elizabeth.

Stites, J. A., Springfield. Strickland, George W., Roselle.

Tomlinson, R. D., Plainfield.
Tomlinson, T. H., 212 E. Seventh
street, Plainfield.
Turner, W. F., 1091 Julia street, Elizabeth.

Vail, J. L., Cranford. Van Horn, A. F., 514 Central avenue, Plainfield.

Voorhees, Nathaniel W., 297 N. Broad street, Elizabeth.

Wade, S. Franklin, street, Elizabeth, 1144 E. Broad

Wagner, Otto, 1071 Elizabeth avenue, Elizabeth.

Warncke, Frank, 310 First avenue,

Elizabeth.
Westcott, F. W., Fanwood.
Westervelt, Marion Z., Rahway.

Whitehead, R. B., 36 Third street, Elizabeth. Williams, Jean, 7

Waldron avenue, Summit. Wilson, N. L., 410 Westminster ave-

nue, Elizabeth. ley, J. Stanley, Wooley, J. Plainfield. Truell Court,

Wright, Jos. E., Westfield.

Yood, R., 117 W. Second street, Plainfield.

Young, J. S., Rahway. Younglove, John, 407 Jefferson street, Elizabeth,

Zeglio, P. J., 48 Somerset street, Plainfield.

WARREN COUNTY.

Albertson, W. C., Belvidere. Albright, Wm. H., Alpha. Allen, Gertrude, Hackettstown. Allen, Wm. C., Blairstown. Anderson, Dr., Columbia.

Barber, Isaac, Phillipsburg.
Barber, Thomas, Phillipsburg.
Beasley, Nellie E., Belvidere.
Bergin, E. J., Washington.
Blackburn, Geo., Blairstown.
Borts, Isaac, Alpha.
Bossard, H. B., Phillipsburg.
Boyer, C. H., Riegelsville.
Brasefield, Edgar N., Phillipsburg.
Burd, Wm. H., Belvidere.

Carhart, Harry L., Blairstown,
Cline, C. H., Hackettstown,
Creveling, Chas. F., Phillipsburg.
Creviling, Philip G., 94 S. Main street,
Phillipsburg.
Crispin, Dr., 92 S. Main street, Phillipsburg.
Cummings, G. Wyckoff, Belvidere.
Curtis, Frank W., Stewartsvilke.

Dedrick, Thomas S., Washington. Drake, Francis J., Phillipsburg.

Founk, Harry S., Port Murray.

Gordon, F. S., Blairstown. Griffith, J. H., Phillipsburg.

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(667)

Agasote Millboard Co., plans approved	. 313
Aldene, disposal plant	. 315
Allenhurst, disposal plant	. 315
Allentown, inspection of water plant	
Allentown, water plant	. 355
Alpha, pollution from cement works	
Analyses of creamery water supplies	
Analyses of dairy water supplies	
Analyses of water from State institutions	
Analyses, public water supplies	
Analyses, sewage and effluents34	
Animals, contagious diseases of	
Annual conference of local boards of health	• •
Anti-tuberculosis campaign	
• *	
American Circular Loom Co., plans approved	
Arthur Kill, investigation of shellfish in	
Asbury Park, water plans	
Asbury Park, disposal plant	
Asbury Park, inspection of dairies supplying	
Asbury Park Estates, water supply disapproved	
Asbury Park, sewerage system	
Asyla disposal plant	
Atlas Cereal Co., waste from	
Atlantic City, disposal plant	. 316
Atlantic Highlands	. 357
Atlantic Highlands, ordered to cease polluting	. 306
Avalon, to cease polluting	. 306
Avon, disposal plant	. 317
Bay Head, inspection of dairies supplying	. 151
Beach Haven Realty Co., permission granted	. 346
Belmar, disposal plant	. 317
Belmar, sewer extensions	. 307
Bernardsville, Somerset Spring Water Co., permission granted	. 346
Births	. 39
Births, marriages and deaths by counties and municipalities	. 391
Births, Registrar's report on	
Blackleg	
Boards of health, list of	
Bogota, sewerage system	
Boonton, United Water Supply Co., permission refused	
Bordentown, disposal plant	
Bordentown, inspection of dairies supplying	
Bound Brook, inspection of dairies supplying	
	. 102
(669)	

Bound Brook, time to cease polluting extended	30
Bradley Beach, disposal plant	31
Bradley Beach, sewer extensions	
Brant Beach, Beach Haven Realty Co., permission granted	
Bridgeport, Bridgeport Water Co., permission granted	
Bridgeton, disposal plant	317
Bridgeton, water plans approved	340
Bright's disease, deaths from	
Brown's-Mills-in-the-Pines, changes in disposal plant	307
Brown's-Mills-in-the-Pines, disposal plant	
Burlington, disposal plant	318
Burlington, inspection of dairies supplying	15:
Burlington, ordered to better disposal plant	307
Burlington, water plant	
Burton, J. G., Hopewell, permission granted to sell bottled water	348
Butter	229
By-passes, sealed	
Caldwell, disposal plant	319
Camden, sewer extensions	307
Cancer, deaths from	76
Canning factories	270
Cape May, conditions of extension of time	307
Cape May Court House, approval of sewage disposal	307
Carlstadt, disposal plant	319
Cease polluting, dates	298
Certified milk in New Jersey	149
Changewater, disposal plant	319
Chatham-Madison, disposal plant	319
Cheesequake Creek, investigation of shellfish in	
Children, deaths among	56
Clams, supervision over	16
Cliffside Park, sewage disposal plans	
Clinton, disposal plans	
Clinton, improve disposal plant	309
Coast Gas Co., to Attorney-General	307
Cold storage13,	235
Cold storage, rules and regulations	
Cold storage, table showing articles held in	
Cold storage warehouses, list of	
Collingswood, actions pertaining to sewage disposal	
Collingswood, disposal plant	
Collingswood, inspection of dairies supplying	
Colored inhabitants, death rate	
Colt's Neck, disposal plans for creamery	
Colt's Neck, disposal plant	
Common drinking cups, law prohibiting use of	9
Communicable diseases on dairy premises	
Communicable diseases reported	
Communicable diseases, table of cases investigated	93
Complaints investigated by Division of Creameries and Dairies	
Conference of boards of health	29

Consumption, deaths from	5:
Contagious diseases of animals	3:
Contagious diseases on dairy premises	123
Contagious diseases on dairy premises, table of	
Contagious diseases, reporting of	2
Cost of disposal plants	
Cowpox	
Cranford, actions of sewerage	
Cream, tables showing samples examined	
Creameries and Dairies, division	
Creameries, inspection of	169
Creameries licensed during the year	
Creameries showing marked improvement during the year	
Creameries unlicensed	
Creamery water supplies, analyses	
Cresskill, disposal plant	
Crosswicks, water plans approved	94'
CIOSOWICES, Water plans approved	34
Dairies, inspection of	14.
Dairies supplying creameries, average scores of	
Dairy inspections by counties, table of	
Dairy premises, communicable diseases on	
Dairy water supplies, analyses	
Dates of approval of plans	
Dates to cease polluting	
Deal Beach, disposal plant	
Deal Golf Club, disposal plant	
Death rate of white and colored inhabitants	
Deaths	
Deaths among children	56
Deaths by cities434,	
Deaths by counties	
Deaths from certain occupations412,	
Deaths in hospitals	26
Deaths, marriages and births, by counties and municipalities	
Deaths, Registrar's report on	388
De Laval Steam Turbine Company	334
Delford, disposal plant	
Deputy registrars	
Devlin Mfg. Co., disposal plant	
Diphtheria, deaths from	
Diphtheria—Salem City	113
Diphtheria, specimens examined for	
Diseases of animals	32
Disposal plants, descriptions	
Disposal plants, tabular summary	338
Division of Creameries and Dairies	•
Division of Creameries and Dairies, report of	147
Division of Medical and Sanitary Inspection	2
Division of Medical and Sanitary Inspection, report of	8
Division of Sewerage and Water Supplies	
Dover, inspection of dairies supplying	
Drinking cups, prohibition of use of	•
Drugs, table showing samples examined	226

671

East Rutherford, disposal plant. Eggs, chemical and bacteriological study of. Elmer, water plans approved. Englewood, disposal plant. Englewood, plans for disposal plant. Essex Fells, disposal plant. Ewing Township, G. J. Rittman, water plans disapproved. Examination of health officers and sanitary inspectors.	275 347 320 308 320 347
Fairview, plans for sewerage system	308
Flemington, disposal plant	321
Food and drug samples, table showing number examined	224
Food inspections, table showing places where made	230
Food law penalties	18
Foods, table showing samples examined	
Fort Lee, sewer extensions	30 8
Freehold, disposal plant	321
Garfield, disposal plant plans	30 8
	227
Glanders	34
Glanders, specimens examined for	
Glen Gardner, disposal plant	
Glen Gardner, sanatorium plant ordered improved	
	164
	154
Gloucester, water plant	
Gonorrhoea, specimens examined for	
Granite Linen Mills	331
Haddonfield, additional water supply granted	217
	321
Haddonfield, inspection of dairies supplying	
Haddon Heights, disposal plant	
Haddon Township, plans for sewers rejected	
	34
Health officers, list of	591
High Bridge, new water supply granted	347
Highland Park, extension of time	309
Hightstown, plans approved	309
Hightstown, water plant	
	349
Hilliard's Island, disposal plant	323
Hohokus, Albert Winter, permission granted	347
Hohokus, water plans approved	
Holly Beach, ordered to cease polluting	
Hopewell, inspection of dairies supplying	940 19 4
Hopewell, J. G. Burton, permission granted to sell bottled water	0 4∂ •••
Hospitals, deaths in	2 6
Ice cream factories	19
Ice cream factories, inspection of	180
Ice cream factories licensed	188
Ice cream factories, rules governing the operation of	186

Ice cream factories, score card used in inspection of	184
Ice cream factories, table showing general condition and improvements made,	
Infectious diseases reported	584
Interlaken, disposal plant	
I. O. O. F. Home	
Island Heights, disposal plant	
Jamesburg, inspection of dairies supplying	155
Jamesburg, disposal plant.	324
Jersey City, inspection of dairies supplying	
versely only, imspection of darries supplying	101
Kearny, inspection of dairies supplying	155
Kenilworth, plans approved for the American Circular Loom Co	
Kenilworth, plans requested	
Kenilworth, water supply approved	348
Keyport, disposal plant	224
Keyport, investigation of shellfish industry at	252
Keyport, sewers near wells	
Keyport, water plants	
Kirkwood, plans requested	
Kirkwood, water supply approved	040
Laboratory, bacteriological work of	100
Lakehurst, disposal plant	
Lakeside Park Land Co., plans requested	
Lakeside Park Land Co., plans requested	
Lakeside Fark Land Co., water supply approved	994
Lakewood, disposal plant	
Lakewood, pollutions	
Lambertville, typhoid	
Lawrenceville, disposal plant	323
Lawrenceville School, inspection of dairies supplying	
Legislation, recommendations for	
Licensing of plumbers	27
List of health officers and sanitary inspectors	
List of physicians	
List of sanitary districts	
Little Falls, water plant	
Local boards of health	85
Local boards of health, conference	29
Loch Arbour, disposal plant	325
Long Branch, disposal plant	
Long Branch, water plant	36 0
Madison, inspection of dairies supplying	
Mahwah, disposal plant	
Malarial fever, deaths from	75
Malaria, specimens examined for199,	
Manasquan, disposal plant	
Manasquan River, investigation of shellfish in	
Margate city, disposal plant	
Margate city, revised plans	309
Maritime quarantine	
Marriage licenses	24

	Marriage without consent of parents	
	Marriages	
	Marriages, births and deaths, by counties and municipalities	
	Marriages, Registrar's report on	
	Measles, deaths from	
	Meat inspection	268
	Meat inspectors, list of	
	Medford, disposal plant	
	Medford, plans approved	
)	Medical and Sanitary Inspection, division	
	Merchantville, disposal plant	326
	Merchantville, disposal plant to be improved	
	Merchantville, water plant	361
	Metuchen, inspection of dairies supplying	155
	Middlesex Water Co	
	Middlesex Water Co., inspection at South Plainfield	348
	Milford, water plans approved	348
	Milk cans, inspection of	233
	Milk depots, inspection of	149
•	Milk standard	21
	Milk, table showing samples examined	
	Milk. transportation of	
	Millburn, inspection of dairies supplying	
	Millville, disposal plant	
	Millville, water plants	361
	Miscellaneous specimens examined	200
	Monmouth Beach, plans approved	309
	Montague, disposal plant	328
	Moorestown, disposal plant	328
	Moorestown, inspection of dairies supplying	156
	Moorestown, water plant	
	Morris Plains, disposal plant	328
	Morris Plains, N. J. State Hospital, inspection of water supply	348
	Morristown, disposal plant	329
	Mount Arlington, pollution	309
	Mount Holly, amended plans	309
	Mount Holly, water plant	362
	Mountain Lakes, water plans approved	349
	Mountain Danes, water plans approved	020
	Navesink River, investigation of shellfish in	248
	Neptune township, sewer system	309
	Neshanic, disposal plant	329
	Newark City Home	335
	Newark, inspection of dairies supplying	
	New Brunswick, inspection of dairies supplying	
	New Brunswick, plans approved	
	New Brunswick, mater inspection	
	N. J. State Hospital, Morris Plains, water supply inspection	349
	New Jersey State Reformatory, disposal plant	231
	New Jersey State Village for Epileptics	333
	New Jersey State Village for Epileptics, plans for disposal plant	319
	New Jersey State Village, water plant	365
	New Jersey State village, water plant	000

•	INDEX.	675
New Lie	sbon, disposal plant	329
New Lis	bon, disposal plant ordered improved	310
New Mi	lford, disposal plant	329
New Mi	lford, water plant	362
Newton,	disposal plant	329

New water supplies	303
Normandie Park Realty Co., sewer system	308
North Plainfield, sewerage	310

TIOTELL E MAIMINGIU,	Scherage	OI
North Wildwood,	sewerage disposal	310
Notifiable disease	s reported	584

Occupations, deaths from certain412,	431
Ocean City, disposal plant	329
Ocean City, plans approved	310
Ocean Grove	330
Official actions, sewage	306
Oleomargarine	228
Ophthalmia neonatorum	11
Orange, inspection of dairies supplying	157

Oyster and clam beds, investigation of	
Paterson, inspection of dairies supplying	

Pemberton	33 0
Pemberton, disposal plant ordered improved	310
Penns Grove, small-pox	94
Penns Grove, water plant	363

Penn. R. R. Shops	334
Perth Amboy, inspection of dairies supplying	158
Phillipsburg, sewer extension	311
Physicians, list of	628
Plainfield	330

l'ians approved, dates of	300
Pleasantville	331
Plumbers, licensing of	27
Plumbing inspectors, list of	592

ramonag mopectors, and cantillate the control of th	
Pneumonia, deaths from	55
Point Pleasant	331
Point Pleasant, inspection of dairies supplying	159
Population	37
Preservatives, in milk and cream	226
Princeton	221

Princeton, inspection of dairies supplying	160
Princeton, sewage disposal	311
Public water supplies	350
Public water supplies, analyses	367

Quarryville	331
Rabies	33

Rabies				· • • • • • •	 • • • • • • • • • • • •	0.0
Rabies					 .	200
Rabies, spec	imens examined	for		. 	 	200
41						

Rahway	
Rahway, inspection of dairies supplying	
Rahway, sewage disposal	
Rahway, water plant	
Ralston	33:
Ramsey, inspection of dairies supplying	160
Raritan Bay, investigation of shellfish in	249
Raritan, inspection of dairies supplying	161
Raritan, water plant	
Red Bank	
Red Bank, further purification of sewage	
Report of Chief of Division of Creameries and Dairies	
Report of Chief of Division of Food and Drugs:	
Report of Director of Laboratory of Hygiene	
Report of Division of Sewage and Water Supplies	297
Report of secretary	
Report of Sewage Disposal Plant	
Report on Sewage Disposal Flant	955
Report on water plants	906
Ridgewood	
Ridgewood, sewage disposal	
Rittman, Geo. J., water plans disapproved	347
Riverside	
Riverton, inspection of dairies supplying	
Riverton, sewer extensions	311
Roebling	333
Roebling, water plant,	365
Roselle, inspection of dairies supplying	
Ross Fenton Farm, disposal plant	315
Rules and regulations, cold storage	
Rumson, to cease polluting	
Rutherford, inspection of dairies supplying	
avacation in a process of the state of the s	
Salem City, diphtheria	113
Salem, inspection of dairies supplying	
Sandy Hook Bay, investigation of shellfish in	
Sanitary Act, enforcement of	
Sanitary districts, list of	
Sanitary inspection, local	90
Sanitary Inspectors, examination of	34
Sanitary Inspectors, list of	
Scarlet fever, deaths from	73
School buildings, inspection of	3
Sea Bright, to cease polluting	312
Sea Girt	333
Sea Isle City, plans approved	312
Secaucus, plans for drainage	
Secretary's Report	1
Secretary's Report	315
Sewages and effluents. analyses	344
Sewell, water plans approved	
Sewerage and Water Supplies, division	
Sewerage and Water Supplies, Report of Division of	207
remembe and mater publics, rechart or Division or	201

